CALIFORNIA
OIL WORLD

PUBLISHED TWICE A MONTH
FOR TIMELY, COMPLETE
CALIFORNIA OIL NEWS COVERAGE

PETROLEUM PUBLISHERS, INC.
MEMBER AUDIT BUREAU OF CIRCULATIONS
W. C. MONROE—President and Editor
LARRY O. MILLER, Advertising Manager

706 SO. VALENCIA ST.
LOS ANGELES 14, CALIFORNIA
KINZIE MILLER—Vice President
W. R. "BILL" COTTON, Chicago Manager
307 N. Michigan Ave., Chicago, Ill.

SECOND ISSUE
• NOVEMBER, 1948
VOL. 41 • NO. 22
WHOLE NO. 1764

California Oil World is published twice a month at 706 So. Valencia St., Los Angeles 14, California. Entered as Second-Class Matter, April 29th, 1944. at the post office at Los Angeles, California, under the Act of March 3, 1879. Subscription price $1 per year in U. S. and possession, $2 in foreign countries, including Canada. Member of the Audit Bureau of Circulations.

November 30th, 1948
Telephone FAirfax 6218

# Washington Highlights

United States by developing bitumen deposits in the Western States may increase petroleum stocks by some 10 per cent. This is the considered opinion of the Bureau of Mines, which disclosed that its San Francisco petroleum engineers have recovered from California sandstone bitumen averaging an oil content of 95 per cent. The Bureau explained that 11 per cent of the sandstone of extensive acreage near Edna in San Luis Obispo County, California, is bitumen, a tarry substance. This sandstone produces approximately 26 gallons of oil to the ton. Edna deposits are estimated to embrace about 282,800,000 tons of bituminous material, capable of being mined by open cut methods. Bureau officials believe the Edna deposits contain some 150,000,000 barrels of oil. The Edna deposit is northwest of another deposit owned by a major oil company.

---

Signs point to a renewed fight by the National Association of Attorney Generals to have tideland waters and underlying lands restored to the states. The states are gearing to go back to Congress when it convenes in January and seek new legislation to restore and confirm their titles to the tidelands. The Supreme Court has held that the Federal Government has paramount rights and full control of waters within the three-mile limit of the California coast. A bill drawn along the lines of the one defeated by the Senate of the 80th Congress will probably be urged by the association.

Those concerned by the growing expense of Government will be interested to know that the number of Federal jobholders declined in September for the first time since December, 1947. Senator Byrd, Democrat of Virginia, made this report as chairman of the Joint Committee on Reduction and Nonessential Expenditures. He said, however, that a decrease of 5876 still left 2,114,994 persons employed in the executive branch of the Government.

---

Rumors here of impending cabinet appointments name Harold L. Ickes, New Dealer, formerly Secretary of the Interior and wartime Petroleum Administrator, a possible new member. President Truman, however, as yet has not touched upon the subject. Ickes resigned from the cabinet two years ago. He returned during the heat of the election campaign to support the President and what appeared generally to observers at that time a sinking New Deal ship.

---

A Senate group has dropped plans for an inquiry this fall into oil supplies. This was the aftermath of reports there will be enough gasoline and heating oil to meet demands this winter. Senator McMahon, Democrat of Connecticut, acting chairman of a Senate commerce sub-committee, disclosed both the oil industry and Government officials reported a prospective shortage is rapidly being overcome.

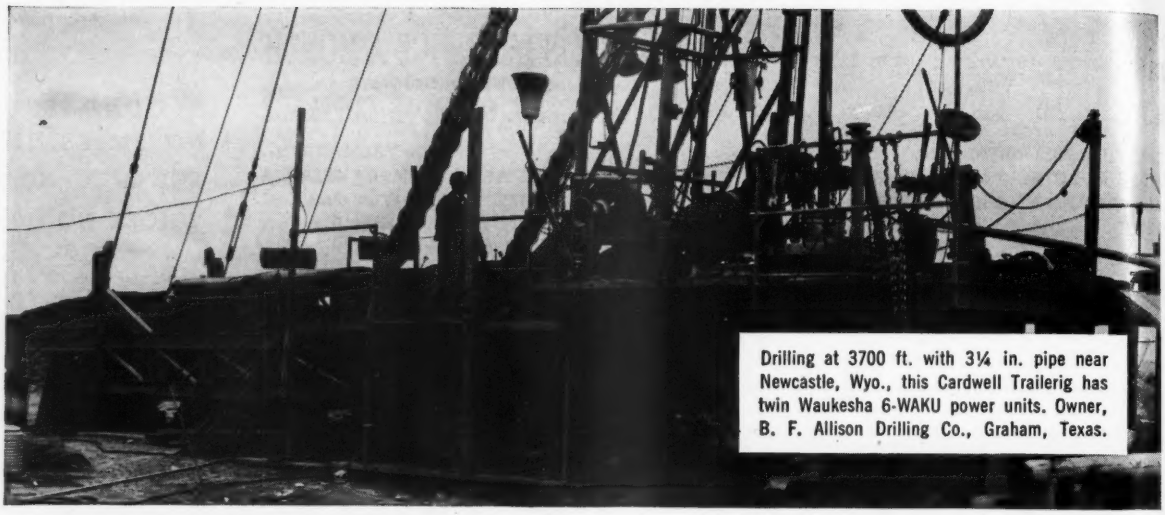
Travel to Middle East oil areas has reached a point of enough importance to prompt Pan American airways to apply to the Civil Aeronautics Board for permission to extend its service to Basra in Iraq. An application to serve Kuwait is pending. Incidentally, Arabian American Oil Company and Trans-Arabian Pipe Line Company have jointly made known that expanding oil pipeline systems in the Middle East will call for another $520,000,000 by 1953. About 145 miles of pipe already has been laid in Saudi Arabia and the necessary pipe for another 100 miles is on hand. The line will transport oil from the Arabian wells 1067 miles to the Mediterranean for loading on tankers.

---

The Supreme Court has refused to consider the portal back pay issue and in effect upheld the 1947 act of Congress denying employees $6,000,000,000 back pay under the so-called portal-to-portal ruling of the Labor Department. The 1947 act, therefore, will stand as law for a time at least until the issue is brought to the high court in some other form.

---

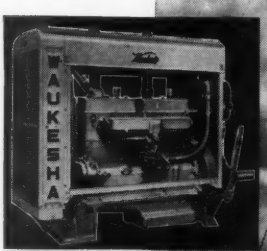
A 17-man advisory committee has been appointed by the Commerce Department to consult with it on steel requirements of the oil terminal and bulk tank storage industry. The committee includes Roger Brambel of Los Angeles.



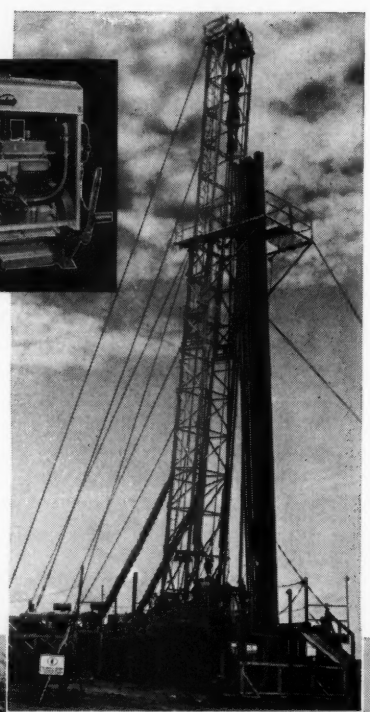
Drilling at 3700 ft. with 3¼ in. pipe near Newcastle, Wyo., this Cardwell Trailerig has twin Waukesha 6-WAKU power units. Owner, B. F. Allison Drilling Co., Graham, Texas.

# POWER plus PORTABILITY

The *Cardwell* TRAILERIG is modern, complete, compact! entirely self-contained! portability plus! Recommended by its makers for drilling to 5000 ft. with 4½ in. drill pipe and workover jobs to 10,000 ft. Equipped with 90 ft. telescoping mast and mud pump drive. Double drum drawworks has twin Waukesha 6-WAKU Power Units, each one putting out better than 200 hp. at the peaks. Air disc clutches in both ends of drum provide high and low drum speeds operated by single lever. All necessary hoisting, mud pump and table speeds available simultaneously. Waukesha Super-Duty Sixes for dependable drilling. Get Bulletin 1139.




**Model 6-WAKU POWER UNIT**
six cyl. 6¼ in. x 6½ in., 1197 cu. in., 213 hp. max. at 1300 rpm., burns gas or gasoline.



**WAUKESHA MOTOR COMPANY, WAUKESHA, WIS.**
NEW YORK • TULSA • LOS ANGELES

# WAUKESHA

Fully portable without dismantling block, mast or Waukesha engines. 8′ wide, 59′ 3″ long. 13′ 6″ high, weight, 75,000 lbs.

# Electronic Equipment in the Petroleum Industry

By E. H. HULSE
Consulting and Application Engineer
Westinghouse Electric Corporation
Los Angeles, California

The application of electronic tubes for industrial purposes has been growing for many years and there are a number of electronic tubes being currently used in various phases of the petroleum industry. Some of these have been applied to specific industry problems and others are results of incorporating standard equipment into the production and distribution of petroleum products. It is the purpose of this article to note a few of these applications and perhaps to arouse an interest in the possible solution of problems by electronic means.

The use of the word "electronics" has been much abused in the last few years by writers proposing that such equipment was capable of almost unbelievable action; however, the actual equipment utilizing electronic tubes that has been developed for various purposes accomplishes a number of difficult tasks. Electronic tubes are particularly applicable to do jobs that require control of large amounts of power from relatively small signal impulses. They are applicable to problems that require control of power from a change in visibility or light conditions. Because of its fast response to relatively small changes in intelligence, a piece of equipment utilizing tubes tends to have a very high speed of response and be relatively accurate in its determinations.

The predominant tubes currently found in petroleum industry electronic equipment are commonly called "Triodes." One of these tubes is the vacuum Triode, which consists of three electrodes in an evacuated space and is sometimes known as a "Pliotron." The other consists of three electrodes in a gas-filled space and is known as a "Thyratron."

The Pliotron is of particular importance where the amplification of a small signal to a large signal possessing the same characteristics is desired. The Thyratron is of greatest importance where the control of large amounts of power is desired from signal impulses, but the output of the tube does not have to be a faithful reproduction of the input signal. Variations of the above two types consist of photo tubes which are responsive to changes in light, rectifier tubes which

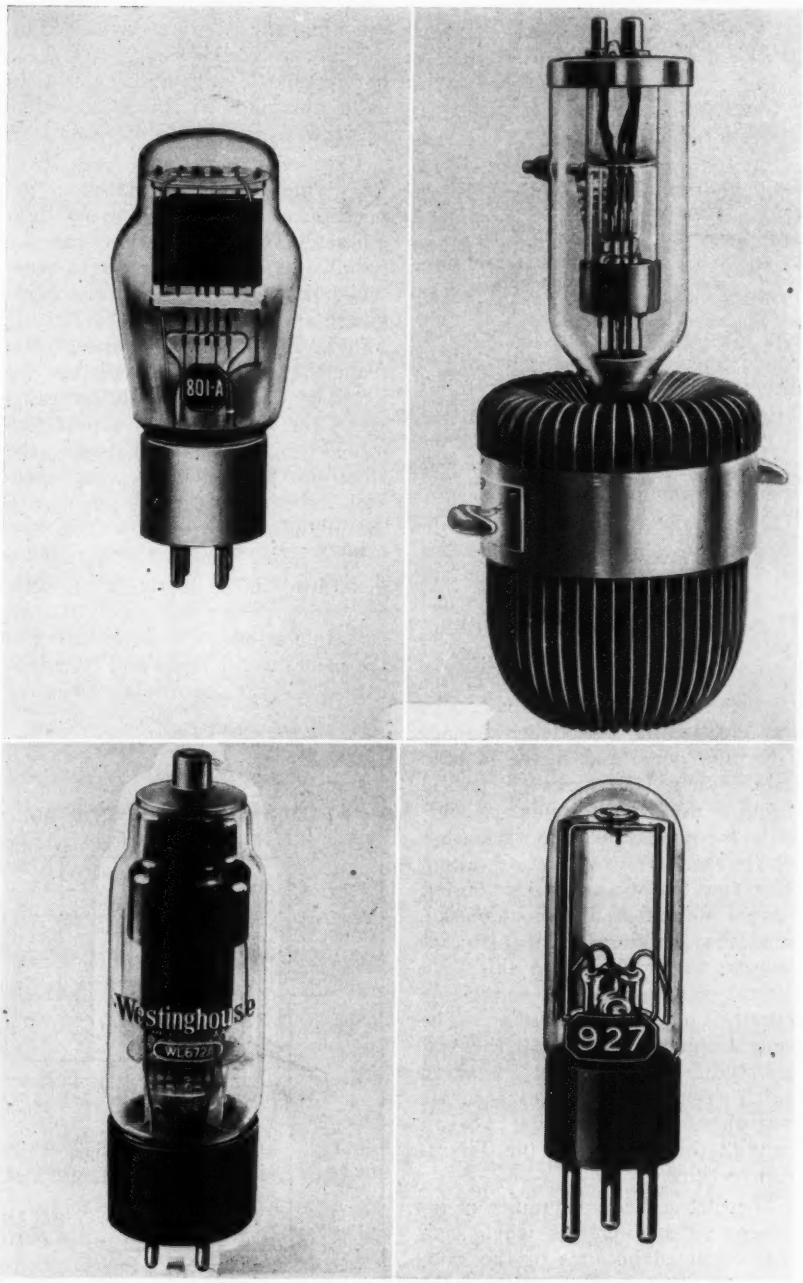



**Figure 1—Illustrative tube types: 801-A, small pliotron amplifier; WL-892R, large pliotron oscillator for power generation; WL-672A, thyratron; and WL-927, photoelectric cell.**

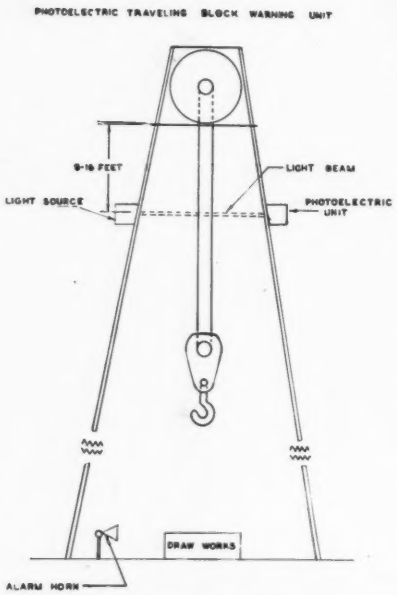



**Figure 2—Schematic of photoelectric traveling block warming unit.**

are primarily for the purpose of converting alternating current to direct current, and oscillator tubes which are of the large Pliotron variety connected in such a manner as to generate high frequency power from a power line source.

One of the more interesting applications of Thyratron tubes has been the control of the excitation for the eddy current type electrical brake commonly used on drilling rigs. These units consist of a rotating armature which is mechanically connected to the draw works and electrically linked with magnetic flux generated by large field coils. When DC current is passed through the coils, circulating currents are generated in the armature which cause it to exert a braking effect on the draw works. If the current in the field coils is increased, then the braking effect also increases, and variation in this field current is provided by a variable output Thyratron rectifier. The control element is a small rheostat operated from the driller's position which results in smooth, accurate control of the braking action through the medium of the Thyratron rectifier.

There have been a number of instances on drilling rigs when accident occurred because of the ramming of the crown block by the traveling block, due to the driller miscalculating the distance between the traveling block and crown block when hoisting. One Oil Company has recently installed photo-electric cells with a light beam across the top of the derrick so that when the traveling block reaches a certain position, the photo cell is operated and actuates an alarm horn. Since the light beam which crosses the derrick does not provide any obstacle to further movement of the traveling block, the driller may continue to hoist, but with a careful eye upon the position of the traveling block. This has proven to be a better type of warning device than cable operated switches or any type of draw works connected indicator.

Photocells have also been used for giving remote indication of the position of a fluid in refinery sight gauges. This application can be handled by either using a light beam which is passed through the sight gauge and interrupted by the rising liquid, or by using a reflected beam from the sight gauge with the reflectivity of the surface affected when the liquid passes a predetermined point. In both cases, the electronic photo cell gives the necessary indication as to the position of the liquid.

The use of electronic tubes for generating large amounts of radio frequency power has received considerable attention from industry in the past several years and its application to the petroleum industry

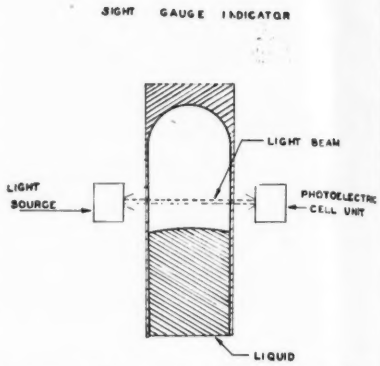



**Figure 3—Schematic of photoelectric sight gauge inductor.**

has been studied from several standpoints. Radio frequency heating employs the use of large Pliotron tubes for generation of high frequency current, which in turn, cause generation of heat in a substance without the necessity of physical connection to the producing apparatus. Some work has been done on the heating of high viscosity oil in pipes by radio frequency means, but the technical and economic aspects are still not satisfactorily correlated. The possibility of heating oil sand at the bottom of hole by transmission of radio frequency energy down the pump string, has been investigated. This treatment will possibly reduce the viscosity of the oil and enable a greater production from the hole.

One of the outstanding instruments developed in the past several

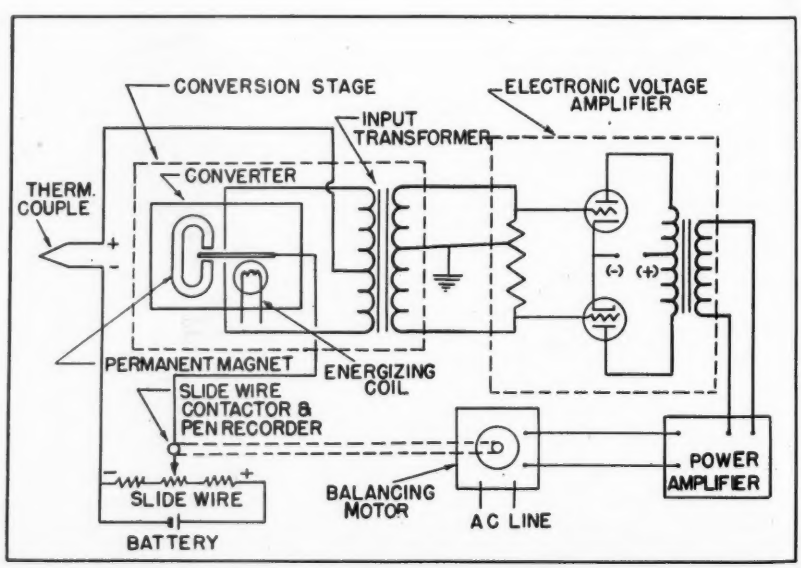



**Figure 4—Schematic of typical electronic recording instrument.**

years for petroleum research is the electronic mass spectrometer. The mass spectrometer employs a special electronic tube and associated apparatus for determining the mass-to-charge ratio of ions and thus permits determination of the constituents of a gas mixture. This has proven of invaluable aid in analysis of petroleum hydro-carbons. The details are complicated but basically, an evacuated tube is used into which the gas is admitted and wherein it is influenced by both a magnetic and electrostatic field. By determining the deflection of the gas ions as they pass through the fields it is possible to determine a relative number of different types present.

Petroleum pipeline operations have recently employed electronic pipe locators and leak detectors for determination of the exact position of buried metallic objects. These electronic pipe locators have proven to be valuable in prospecting for possible hazards in the path of a ditcher, for locating the exact center of buried pipes and determining their depth beneath the surface, and for tracing the course of underground lines without contact with the underground pipeline itself.

The equipment consists of two specially designed units, each housed in a separate box. In operation the transmitter unit sends out a continuous signal and the receiver unit gives a definite indication of constant signal. If any metallic object comes between the two units, however, the indication in the receiver units will be changed and thus indicate the position of the metallic object. These units employ small electronic tubes and are generally operated from batteries which are a part of the package unit itself.

Increasing awareness of better instrumentation which has characterized the refining division of the petroleum industry for some years has brought an increased awareness of the value of electronically operated instruments. This type of instrument has proven to be accurate and also involved less servicing and maintenance costs then other types.

There are a number of different types of instrumentation used in refinery work which employ electronic tubes as indicating devices. One of these types uses a special converter to change the unbalanced DC voltage from a thermocouple to a proportional AC voltage, amplifies this voltage and uses it for operating the indicating and recording mechanism. Another type employs a small electrically balanced bridge which is used in conjunction with a light metallic vane that deflects when the measured quantity changes. This small deflection produces an unbalanced voltage in the bridge that is amplified by electronic tubes and operates the indicating and recording apparatus.

**Figure 5—Typical 20-kilowatt radio frequency generator with built-in work table.**

The resume of tube application given in this discussion is, of necessity, incomplete. These illustrations of the versatility and usefulness of electronic tubes in the petroleum industry should give some indications towards further use. Electronic equipment has now reached the stage where it can be considered for use in any type of application no matter what the physical circumstances might be. Tubes and their associated components are no longer restricted to laboratory application and those uses where their environment must be kept serene. No greater accolade can be given to electronic equipment than to list its past performances and future possibilities.

## Brumbaugh Advances at G.P.

A. K. Brumbaugh, Jr., has been advanced to the post of Engineer of Design for the General Petroleum Corporation, it was announced at the company's home office in Los Angeles by C. M. Reading, acting manager of the Engineering Department.

In his new post Mr. Brumbaugh will be in charge of the design of all new installations and improvements to the manufacturing plants and refineries of the company.

Mr. Brumbaugh's work since 1944 has been primarily concerned with the expansion of General Petroleum's Torrance Refinery. First as an assistant engineer and later as Project Engineer, he has been connected with the engineering work on many millions of dollars worth of refinery improvements.

He joined the General Petroleum Corporation in May 1939 as an inspector in the Engineering Department having previous industrial experience as a sales enigneer for a welding company and as an inspector for the Southern Counties Gas Company.

Mr. Brumbaugh is active in industry organizations being a member of the California Natural Gasoline Association, the American Institute of Chemical Engineers, and the American Welding Society. He is recognized as both a professional chemical engineer and a professional mechanical engineer under the laws of the State of California, and is one of only two men in the state who hold this dual recognition.

He is the author of many technical articles including a widely published paper entitled "Smokeless Burning of Refinery Gases" which deals with General Petroleum's installation at its Torrance Refinery for smoke elimination.

Mr. Brumbaugh is a summa cum laude graduate from the University of Michigan and holds the degree of Bachelor of Science in Chemical Engineering.

In his leisure hours Mr. Brumbaugh is a chess and bridge enthusiast and enjoys the design and construction of amateur radio sets for his family of three children. The Brumbaughs reside in Inglewood, California.

**McCullough TOOL COMPANY**

5820 S. Alameda St.
Los Angeles 11
California

405 McCarty Ave.
(P.O. Box 2575)
Houston, Texas

**26**
**SERVICE LOCATIONS**

**TEXAS:**
HOUSTON
ALICE
CORPUS CHRISTI
McALLEN
ODESSA
TYLER
VICTORIA
WICHITA FALLS
CISCO
SAN ANGELO

**OKLAHOMA:**
OKLAHOMA CITY
GUYMON
HEALDTON

**MISSISSIPPI:**
LAUREL

**NEW MEXICO:**
HOBBS

**CALIFORNIA:**
LOS ANGELES
AVENAL
BAKERSFIELD
VENTURA

**LOUISIANA:**
HOUMA
LAKE CHARLES
NEW IBERIA
SHREVEPORT

**KANSAS:**
ULYSSES

**WYOMING:**
CASPER

**MONTANA:**
CUT BANK

**EXPORT OFFICE:**
30 Rockefeller Plaza
NEW YORK 20, N.Y.

24 Hours a Day...

**McCullough**

goes **ANYWHERE** to do your

**FISHING JOBS**

with the

**FINEST FISHING TOOLS**

•

**POSITIVE KNOWLEDGE**
of just where pipe is stuck, and

•

**THOROUGHLY EXPERIENCED MEN**

# Casing Design Simplified In Combination Strings

Design of combination casing strings has been greatly simplified by a new method of dealing with collapse resistance. So-called combination casing strings, which are designed to reduce the weight of long strings of casing for reasons of economy or to reach greater depths without strengthening the joints, require special consideration in design when collapse resistance is a factor. Although tension and burst computations are relatively straight-forward and standardized, collapse computations have been more complex, involving trial assumptions and time-consuming operations.

The new method, which is offered by B. E. Curran, assistant director of research, Spang-Chalfant Division, The National Supply Company, gets results directly by means of a single formula and the accompanying table of parameters. This table may be expanded if necessary, using the indicated formulas for parameters.

The formula for minimum allowable length (x) that will permit the "unadjusted minimum nominal collapse resistance" (K) at the lower end of an upper section to support the prevailing collapse pressure at a depth of (L — x), as shown in Fig. 1, with a safety factor (F) is:

$$x = \frac{L}{a} + \frac{n}{b} - c\sqrt{1 - \left(\frac{L+n}{d}\right)^2} \qquad (1)^*$$

*For those who prefer working with trigonometric tables this formula can be written:

$$x = \frac{L}{a} + \frac{n}{b} - c \sin\left[\cos^{-1}\left(\frac{L+n}{d}\right)\right]$$

where L = depth to bottom of section being calculated
and n = W/w = ratio of total hanging load below the section to weight per unit length of casing in the section being calculated.

The variables or parameters (a, b, c and d) in this equation are all functions of a ratio (m = u/v) which is evaluated by simple formulas that include all of the necessary variables in the problem. All of these quantities and formulas for each are given for 11 weights of casing in Table I, columns 12 to 18. The variables in the collapse parameter formulas which have not been previously defined are:

A = metal cross-sectional area at the lower end of section at depth (L — x) in Fig. 1.

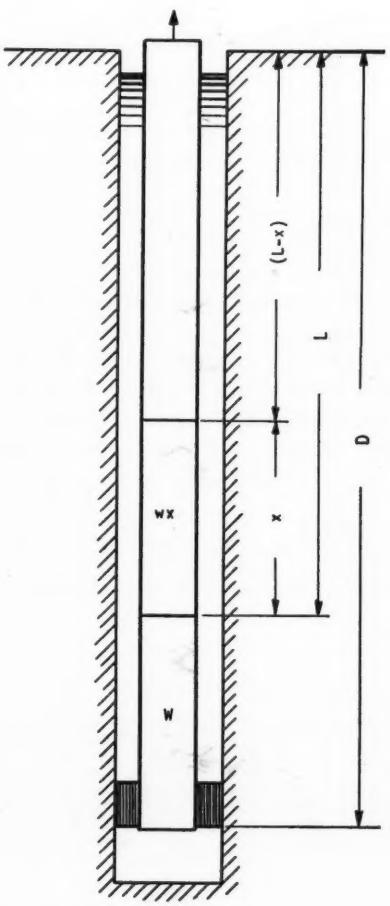



**FIGURE I**

**Diagrammatic sketch of a combination casing string suspended in a well filled with fluid surrounding the casing in the annular space but having no access to the inside.**

$s_o$ = average yield strength of material of above section.

p = hydrostatic pressure gradient.

u = equivalent setting depth in tension of the body of the pipe, irrespective of joint strength. It is based on average rather than minimum properties because the effect of tension on collapse is based on the average value.

v = maximum allowable setting depth in a well filled with fluid developing the hydrostatic pressure gradient (p).

The use of this method of collapse computation may be illustrated by the design of several of the lowermost sections of a 7-in. O.D. combination string for a 16,000-ft. hole, assuming a hydrostatic pressure gradient of 0.5 lb. per sq. in. per foot of depth and a safety factor of 1⅛ in collapse, which is normal for the tabulated values in Table I.

The 38-lb. N-80 grade is required for the bottom section, the table shows. For the second section 35-lb. N-80 is arbitrarily selected. The problem is then to determine the shortest length of 38-lb. N-80 that will permit the use of 35-lb. N-80 in the next section above it and still be able to support the prevailing hydrostatic pressure at the required safety factor.

Since there is no hanging load (W) to be considered with the bottom section, the formula is simplified by making n = O. Applying collapse parameters (a, c and d) in the bottom line of Table I, columns 15 to 18, the length of the section is:

$$x_1 = \frac{16{,}000}{1.1547} - 17{,}005\sqrt{1 - \left(\frac{16{,}000}{23{,}128}\right)^2}$$

$$= 13{,}856 - 17{,}005 \times 0.72209$$
$$= 1577 \text{ feet}$$

Using a rounded figure of 1600 feet of 38-lb. N-80 adds a hanging load (W) of 60,800 lb. to be included in computing the length of the next section. This makes n = 60,800/35 = 1737 ft. This is the

Here is—

# STRAIGHT HOLE DRILLING *Insurance!*

**Your well surveying worries are over when you put a Sperry-Sun E-C Inclinometer on the job. Here, in one simple, convenient package is everything necessary to insure quick, positive, accurate, easily read and permanent records at any depth. For instance:**

***E-C provides multiple records in a single round trip...***
***E-C double checks each record for positive, dependable information . . .***
***E-C requires no complicated developing—records are immediately available on the job . . .***
***E-C can be run by crew members on wire line, core barrel overshot, go-devilled, or inside bailer.***

**Furthermore, you have no bothersome delays waiting for instruments to be repaired or serviced. E-C Inclinometers are not sold. They are furnished on a low-cost, lease-rental basis, which permits immediate replacement and factory maintenance to assure perfect operating condition at all times.**

**Our nearest service engineer will gladly furnish full details how you, too, can profit from E-C "Straight Drilling Insurance."**

★SURWEL SERVICE ★SYFO CLINOGRAPH ★E-C INCLINOMETER ★NON-MA

SPERRY SUN

## SPERRY-SUN WELL SURVEYING COMPANY

3118 BLODGETT AVENUE HOUSTON, TEXAS

equivalent length of 35-lb. casing. Applying collapse parameters corresponding to a change from 35-lb. to 32-lb. casing, the length of the second section is:

$$x_2 = \frac{14{,}400}{1.0667} + \frac{1737}{-15.989} - 15{,}125$$

$$\sqrt{1 - \left(\frac{14{,}400 + 1737}{22{,}728}\right)^2}$$

$$= 13{,}391 - 15{,}125 \times 0.70420$$

$$= 2740 \text{ feet}$$

Calculations for the third section of 32-lb. casing are similar, this time based on a rounded figure of 2800 ft. in the second section and a hanging weight of 158,800 lbs. The formula gives $x_3 = 2724$ ft., which may be rounded to 2800 ft.

Since these calculations are only illustrative they do not consider the possibility that the next section might have to be heavier pipe because of increasing tensional load. This is beyond the scope of these studies.

Greater details in the derivation and proof of formulas are available to anyone who is interested.

| LOWER SECTION | | | | | | UPPER SECTION | | | | | COLLAPSE PARAMETERS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| WEIGHT PER FOOT | GRADE | THICK-NESS | D/t | MINIMUM COLLAPSE PRESSURE | SETTING DEPTH $F_c = \frac{1}{3}$ | WEIGHT PER FOOT | GRADE | CROSS SECT-IONAL AREA | AVERAGE YIELD STRESS | MINIMUM COLLAPSE PRESSURE | $\frac{A s_0}{w}$ | $\frac{x}{pF_c}$ | $\frac{a}{v}$ | $\frac{\left(\frac{A}{a}-1\right)^2}{a}$ | $1 - \frac{\left(\frac{A}{a}-1\right)}{a^2}$ | $\frac{a}{\sqrt{1+a\left(\frac{A}{a}-1\right)}}$ | $\frac{2s}{pF_c}\sqrt{1+a\left(\frac{A}{a}-1\right)}$ |
| w | - | t | - | - | - | - | - | A | $s_0$ | E | u | v | a | a | b | c | d |
| 17 | H-40 | .231 | 30.30 | 1370 | 2436 | 17 | F-25 | 4.9123 | 35000 | 1100 | 10114 | 1956 | 5.1708 | .9344 | 14.234 | 2129 | 18731 |
| 20 | H-40 | .272 | 25.74 | 1920 | 3413 | 17 | H-40 | 4.9123 | 50000 | 1370 | 12281 | 2436 | 5.0435 | .9336 | 14.056 | 2656 | 13005 |
| 20 | J-55 | .272 | 25.74 | 2500 | 4444 | 20 | H-40 | 5.7492 | 50000 | 1930 | 14373 | 3413 | 4.2133 | .9293 | 13.136 | 3771 | 15019 |
| 23 | J-55 | .317 | 22.08 | 3290 | 5849 | 20 | J-55 | 5.7492 | 65000 | 2500 | 16348 | 4444 | 3.6562 | .9282 | 12.935 | 4965 | 16782 |
| 26 | J-55 | .362 | 19.34 | 4070 | 7236 | 23 | J-55 | 6.6555 | 65000 | 3290 | 18638 | 5849 | 2.9446 | .9367 | 14.793 | 6657 | 16881 |
| 23 | N-80 | .317 | 22.08 | 4300 | 7644 | 26 | J-55 | 7.5491 | 65000 | 4070 | 21334 | 7236 | 2.9483 | .9343 | 14.234 | 8215 | 21899 |
| 26 | N-80 | .362 | 19.34 | 5320 | 9458 | 23 | N-80 | 6.6555 | 85000 | 4300 | 21758 | 7644 | 2.8464 | .9366 | 14.782 | 8699 | 22076 |
| 29 | N-80 | .408 | 17.16 | 6370 | 11324 | 26 | N-80 | 7.5491 | 85000 | 5320 | 22127 | 9458 | 2.3395 | .9606 | 24.352 | 10883 | 22204 |
| 32 | N-80 | .453 | 15.45 | 7400 | 13156 | 29 | N-80 | 8.4494 | 85000 | 6370 | 22444 | 11324 | 1.9820 | 1.0031 | -327.37 | 13075 | 22444 |
| 35 | N-80 | .498 | 14.06 | 8430 | 14969 | 32 | N-80 | 9.3173 | 85000 | 7400 | 22638 | 13156 | 1.7200 | 1.0567 | - 15.989 | 15135 | 22728 |
| 38 | N-80 | .540 | 12.96 | 9080 | 16142 | 35 | N-80 | 10.1725 | 85000 | 8430 | 22754 | 14969 | 1.5201 | 1.1547 | - 7.4624 | 17005 | 23138 |

**TABLE I—Tabulated setting depth parameters for 7" O.D. casing for use in formulas for determining critical length of sections affecting collapse resistance.**

## G. P. to Drill in Arizona

Lease agreements signed recently by the General Petroleum Corporation, Los Angeles, were the first step in a new program of the company to develop oil production in the State of Arizona.

In one of the largest land deals of its kind General Petroleum leased a total of 64,000 acres of property in northeastern Arizona from George C. Creager, independent oil producer, the Aztec Land and Cattle Company, and the New Mexico-Arizona Land and Cattle Company.

General Petroleum will begin drilling operations immediately on the newly-leased land.

The 64,000 acres are located in Navajo and Apache Counties in an arc around the town of Holbrook, Arizona. One of the largest individual parcels borders on the Petrified Forest National Monument and lies just west of the famous Painted Desert, south of the Navajo Indian Reservation.

It is in this area that General Petroleum will drill its first exploratory well. The well will be located in Township 19N, Range 23E of Navajo County.

The new leases are located in the Black Mesa Basin area and the first well will be drilled on the so-called Little Carrizo anticline.

This anticline has been recognized as potential oil land since before the turn of the century and was mapped in detail by Dorsey Hager, petroleum geologist, who is associated with Mr. Creager in the General Petroleum Corporation dealings.

Many other local structures of an oil bearing potential are located in the Black Mesa Basin territory and have been covered by General Petroleum leases after extensive investigation by General Petroleum geologists.

While Arizona has never produced oil in commercial quantities, it has received attention from the oil industry for several years. This attention has increased recently as the national demand for petroleum products has soared with a parallel increase in petroleum exploration work.

## Fairview Try Cores

Spot coring and drilling ahead near 7000 ft. was the latest word from Standard of California's Turley No. 1 wildcat in the Fairview area on Sec. 4-6s-10w, Orange County.

## Playing It Safe

The time: Election eve, 1952.

The place: A broadcasting studio.

A noted commentator speaks: "Good evening ladies and gentlemen. This is Pew Drearson speaking. I am reliably informed that there will be a presidential election tomorrow. If this is correct, it is quite likely that a number of citizens will go to the polls. Votes will probably be cast for the presidential candidate of each party—it being my understanding that each of the two major parties has a candidate. I can positively predict that if someone is elected President tomorrow he will be our next President, provided, of course, that he lives until next January 20. Good night, ladies and gentlemen."

Announcer: "Listen each week for Pew Drearsons' daring predictions of things to come—predictions which have proved—that people shouldn't make predictions."

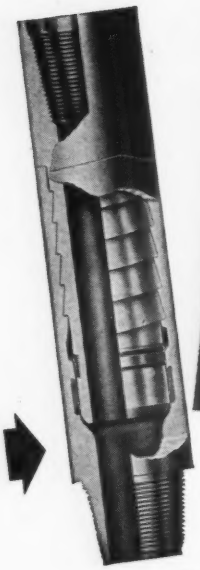
## Little Rock Wildcat Digs

Near Little Rock in Antelope Valley, Orlando Oil Corporation is drilling at 1360 ft. with its Orlando No. 1 prospect hole on Sec. 32-5n-10w.

# these 4 BOWENS

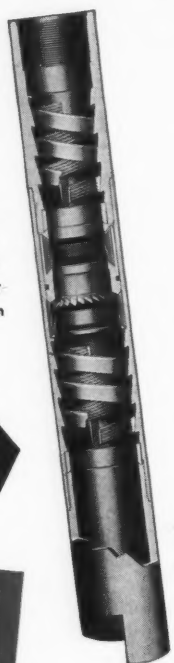
## *Can Meet Most of Your Fishing Needs*

With these four Bowen tools you're ready for almost every type of fishing work encountered on a drilling rig. Look these tools over carefully and see for yourself how they meet your standards of safety and fool-proof operations on the toughest jobs.



### THE BOWEN SAFETY JOINT

—a readily releasable connection for either drilling or fishing . . . delivers full torque capacity of string in either direction . . . has only four simple parts — box and pin sections and packers.

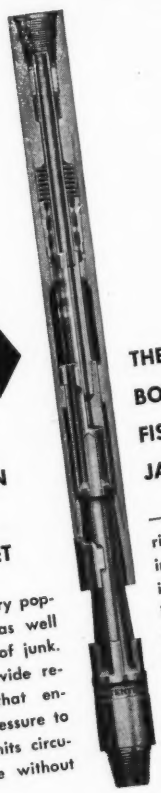


### THE BOWEN RELEASING OVERSHOT

—Catches drill pipe, couplings or tool joint without making any adjustments . . . utilizes exclusive grapples that cinch tighter as pull increases . . . is easily released at any time.

### THE BOWEN JUNK BASKET

Made to retrieve every popular type bit cone as well as all small pieces of junk. Inner passages provide reverse circulation that enables full pump pressure to be used and permits circulating out of hole without losing fish.



### THE BOWEN FISHING JAR

— Operates without risky twisting or turning of the string . . . is fully adjustable for intensity of blow while in the hole . . . is fast in operation . . . and built for the hardest jarring jobs.

*Your 1948 Composite Catalog*

contains full descriptions and illustrations of these and many more tools in the complete Bowen line. or write for your copy of The Bowen Catalog. No obligation at all. Make Bowen Tools your guide to safer, more efficient, more economical operations when fishing jobs come your way!

# BOWEN FISHING TOOL COMPANY

SANTA FE SPRINGS, CALIFORNIA

VENTURA • BAKERSFIELD • AVENAL • SANTA MARIA

CASPER, WYOMING

Export: S. R. BOWEN CO., 30 ROCKEFELLER PLAZA, NEW YORK, N. Y.

# Personalities IN THE NEWS

## Harold Gearin Joins Fluor

Mr. Harold Gearin has joined the sales staff of Fluor Corp., Ltd., constructors and engineers. He is currently in the Los Angeles offices, studying details of Fluor operations, and will shortly assume the responsibility of sales coordinator among the company's various district offices on refinery and other construction projects.

Mr. Gearin previously held executive sales positions with the Shell Oil Company and the Bendix Aviation Corporation, and is widely known throughout the petroleum and oil-equipment industries.

---

Among the major awards made at the annual convention of the American Society for Metals was the honoring of Robert W. Schlumpf, Chief Metallurgist of Hughes Tool Company with a distinguished service award. Presented to Mr. Schlumpf at the annual banquet of the convention in Philadelphia, Pennsylvania, the award read "for outstanding work in the utilization of alloy steels in oil-well-drilling equipment."

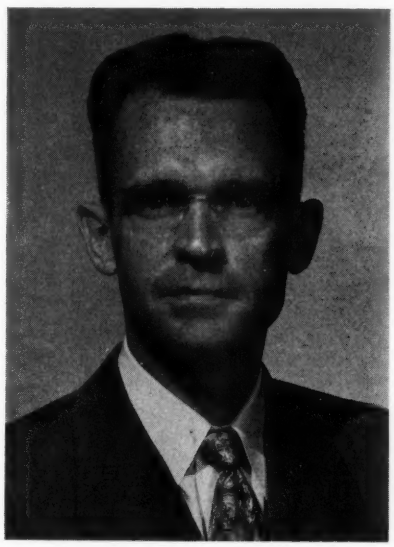
Mr. Schlumpf joined Hughes Tool Company in 1924 and is considered a leading authority in the metallurgical field pertaining to oil-well-drilling metal processing, and is a member of long standing in the American Society for Metals. After being graduated from Carnegie Institute of Technology, Mr. Schlumpf's interest in oil field equipment metallurgical development led him to Texas and Hughes Tool Company where his capabilities and expert knowledge earned for him his present executive capacity as Chief Metallurgist.

---

B. M. Stewart, Los Angeles oilman, has purchased the beautiful $78,000 Pacific Palisades home of the late Carole Landis, actress.

## Ken Swart Made Vice President at Security Engineering Co., Inc.

O. Hammer, President of Security Engineering Co., Inc., announces the election of K. H. Swart as Vice-President of the firm. Along with his new responsibilities, he will retain his present position as Chief Engineer.



**Ken Swart**

A graduate of the California Institute of Technology, with a B.S. and M.S. in Mechanical Engineering, Mr. Swart was engaged in engineering work for the Metropolitan Water District of Los Angeles and the Kettleman North Dome Association until early 1936. For the past thirteen years he has been with the Security Engineering Co., Inc., and has been active in the design and development of Securaloy Pipe and production accessories, the Security Casing Scraper, Rock Bit, Hole Opener, and Coring Bit.

---

L. A. Mekler, petroleum engineer and technologist with consulting offices at Chicago, has been appointed consultant for Stanford Univ.

## Nineteeners Elect Officers

The officers and directors of the Nineteeners for the ensuing twelve months are:

Paul Huggins, Big Shot; Charley Perkins, Hot Shot; Lev Sacre, Hook Shot; Bill Farrar, Half Shot; Tut Tuttle, Director at Large; Holly Hayter, Chairman Membership; Jay Perrin, Chairman Tournament; Joe Aderhold, Chairman Rules & Handicap; Harold Davis, Chairman Prize & Trophy; Al Jensen, Chairman Entertainment; Jim MacDonald, Chairman Publicity.

---

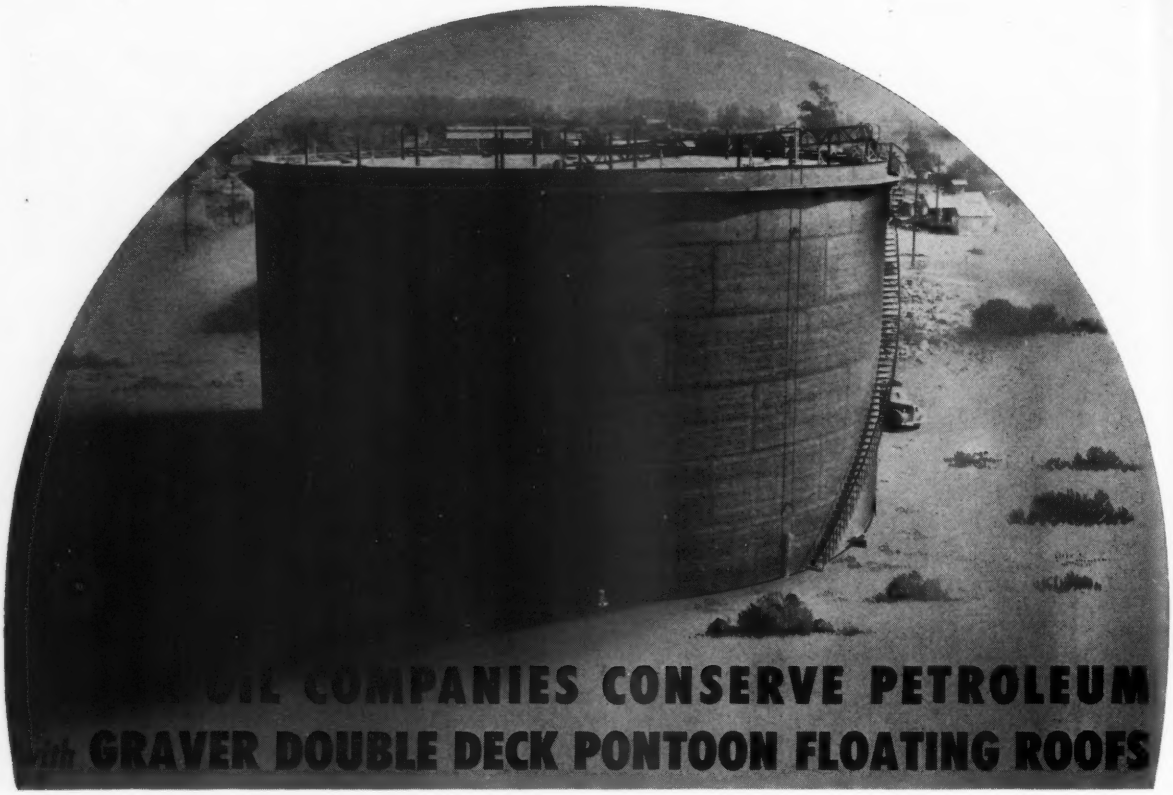
Oilman George W. Ring's Fleet Rings has put in her appearance at Santa Anita. Fleet Rings sold for the record price of the Keeneland, Kentucky, yearling sales last summer and Ring went to $46,000 to get her. The newcomer at Santa Anita arrived with five other yearlings from Lexington, Kentucky, owned by the Rings.

---

Clarence H. Shivvers, Arizona manager for Shell Oil, was among those signally honored at the Los Angeles Ambassador Hotel, commemorating his completion of 32 years of service with the company. Three hundred employees of the company's marketing division were present. R. D. Stetson, division manager, announced that all in attendance at the dinner have been with the company more than 10 years.

---

Roy Weatherby, nationally renowned gunsmith in the field of big game cartridges and rifles, was at the meeting of the Southern California Gas Company's rod and gun club to personally narrate his new color motion picture of his latest hunting trip to Africa. Showing of the film followed the regular dinner and business meeting of the club held in Los Angeles.



# OIL COMPANIES CONSERVE PETROLEUM with GRAVER DOUBLE DECK PONTOON FLOATING ROOFS

**Now, coast to coast, major oil companies conserve petroleum with Graver Double Deck Pontoon Floating Roofs fabricated and installed by SOUTHWEST WELDING & MFG. CO.**

**Illustrated is a new 95' diameter API all welded storage tank located at Santa Paula, California, equipped with the Graver Pontoon Floating Roof.**

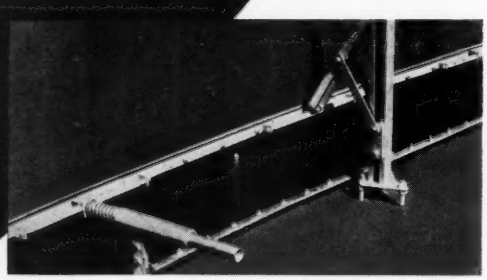
**In all cases where filling losses greatly exceed breathing or standing losses, the improved floating roof with full double deck construction gives a full measure of protection.**

**Roof is designed to lie entirely upon the surface of liquid and to eliminate any vapor space, thus effectively minimizing corrosion in sour crude storage.**

**Note these features of the Graver Pontoon Floating Roof:**

1. **Double Deck insures stored liquid against boiling.**
2. **Vapor tight seal is doubly actuated by springs plus vapor pressure.**
3. **Smooth deck—no pockets for accumulation of dirt or water—sloped to provide complete drainage.**
4. **Screened open drain—pipe drain optional.**
5. **Adjustable supports.**
6. **Seal composed of 16-gauge heavily galvanized or stainless steel continuous shoe and long-lasting synthetically treated fabric.**
7. **Simplified construction.**
8. **Reduces fire hazard.**

Graver alternating hanger and pusher arms maintain a positive seal.



# Southwest Welding & Manufacturing Co.

**3201 MISSION ROAD, ALHAMBRA, CALIFORNIA • TELEPHONE CUmberland 31153**

**853 Monadnock Building, 681 Market Street, San Francisco 5, California • Telephone GArfield 1-5454**

## Bruce Deters Makes Trip To Rocky Mountains

Bruce Deters, M. O. Johnston Oil Field Service Corporation's California, Rocky Mountain, New Mexico and West Texas Service Manager, recently visited Colorado and Wyoming in the interests of Johnston Formation Testing and SHOOT-N-TEST Gun Perforating. Deters and Wayne Gorrel, Johnston's Regional Sales Representative, attended the meeting of the Rocky Mountain Chapter of the A.P.I. at Denver, November 18 and 19.

## Fluor Appoints New Chief Process Engineer

Lee Van Horn has been appointed chief process engineer for Fluor Corp., Ltd., according to an announcement by the company. His headquarters will be in Los Angeles.

Mr. Van Horn has been intimately connected with the development of refining processes, such as Hydroforming, Fluid Catalytic Cracking, and others, for the past twenty years. His extensive experience will be devoted to directing process research and engineering in connection with Fluor contracts in refining-plant construction.

John B. Elliott, oil company executive and onetime Associated Press bureau manager in Los Angeles, has been named associated member of the board of directors, Greater Los Angeles Press Club.

Earl B. Gilmore, long identified with the California oil industry, has signed a commercial contract with KTTV, a CBS television station in Los Angeles. Gilmore, owner of the famous Farmers Market at Los Angeles, will be one of three co-sponsors of a half-hour night time show. The market is on property owned for many years by the Gilmore family. It once was the scene of hundreds of shallow producing wells and four years ago the location of an unsuccessful deep test under the Shell Oil banner.

## Dr. Freeman Appointed Chief Metallurgist at Columbia Steel

Appointment of Dr. Robert B. Freeman as Chief Metallurgist for Columbia Steel Company, far Western subsidiary of United States Steel Corporation, was announced recently. Dr. Freeman will succeed Gordon L. von Planck who has been appointed Metallurgical Consultant.

Von Planck became associated with Columbia Steel Company in 1910 as Chief Chemist at the Pittsburg, California, Works. He served in that capacity until 1923, when he was transferred to the Ironton, Utah, Plant. Returning to the Pittsburg Works four years later, he was named Metallurgist, and in 1932 was made Chief Metallurgist with offices in San Francisco. In his new capacity, von Planck will be a consultant on the metallurgy and use of various products made by United States Steel Corporation subsidiaries and distributed on the West Coast through Columbia Steel Company.

Dr. Freeman joined Columbia Steel Company in 1936 upon receiving a Ph. D. in Metallurgy from the California Institute of Technology. He received his B.S. in Mechanical Engineering in 1932 and his M.S. in Metallurgy the following year. While studying for his Ph. D., he taught at the Institute.

Starting as a Metallurgist at the Torrance Works of Columbia, he was transferred to the San Francisco headquarters office in 1938, and in 1941 became Metallurgist at the Pittsburg Works, and two years later Works Metallurgist. In his new position, Dr. Freeman will maintain offices in San Francisco.

Meanwhile it was announced that Thomas E. Caldwell will succeed Dr. Freeman as Works Metallurgist at Pittsburg, and he will be assisted by H. Edward Doleman. Caldwell, a graduate of the Missouri School of Mines, started with Columbia Steel Company in 1934 and has worked in various metallurgical capacities at the Pittsburg Works. Doleman is a graduate of Stanford University and has been with the Company since 1935.

**Edmond M. Wagner, well known California Petroleum and Mechanical Engineer was honored on October 7, 1948 by a presentation on behalf of the President of the United States of a citation "for an outstanding contribution to the work of the Office of Scientific Research and Development during World War II." Friends of Ed Wagner who have long recognized his inventiveness and painstaking care with every detail are not surprised at this reward for a job well done. Those who have not yet had the opportunity of congratulating him in person will find him at Waldrip Engineering Company in Hollydale, California, where he is currently supervising the production of trailer-mounted and self-propelled drilling and servicing rigs, many of the patents on which carry his name as co-inventor.**

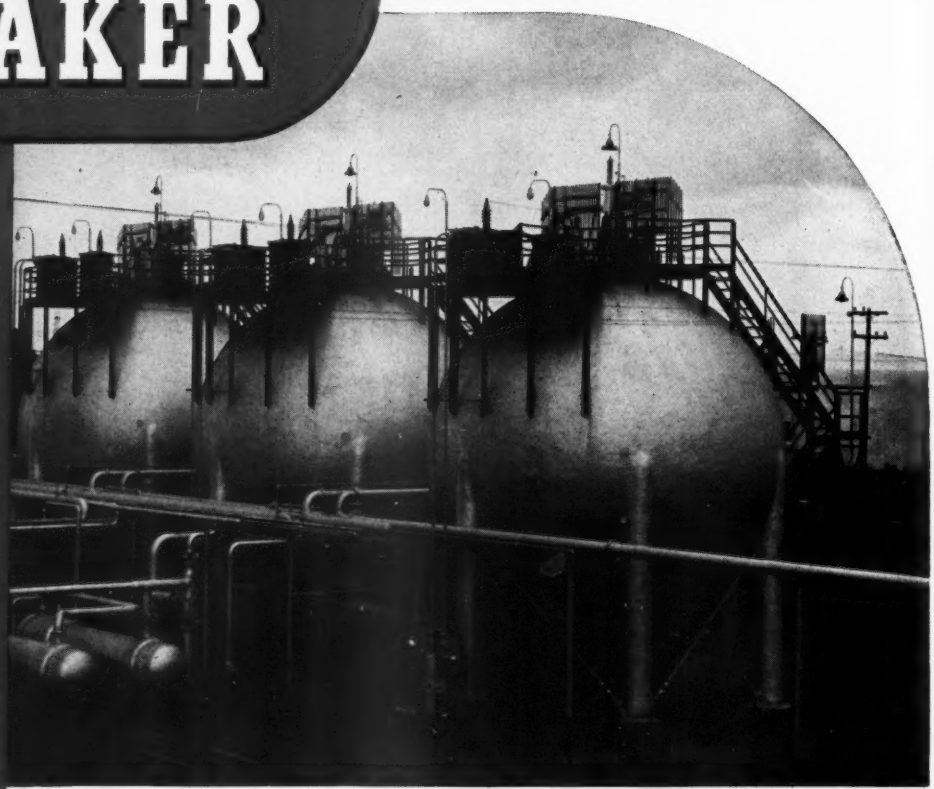
Rudy F. Williams has been appointed superintendent of terminals for Ethyl Corporation. He will direct operations of the company's new storage terminal plants at Wilmington, California, and Edge Moor, Delaware.

Richard B. Hohlt is the author of a new volume titled "The Nature and Origin of Limestone Porosity." Published by the Colorado School of Mines, he reports on research under a fellowship provided by the California Company, a subsidiary of Standard of California.

J. H. McMaster, Honolulu Oil, discussed the "Oceanic Sand" at the meeting of the San Joaquin Valley chapter of the American Petroleum Institute in Taft. Guy Wadsworth, Southern Counties Gas, talked on "Industrial Relations," and Shell Oil presented a sound color film entitled, "Birth of an Oil Field."

# SALT SHAKER

## KING SIZE...



Courtesy Union Oil Company of California

A Petreco Electric Desalter doesn't exactly *shake* out the salt, but it sure gets rid of it–right now. Most Petreco desalters are getting 90% or better removal–98, 99 and 100% removal efficiencies are not unusual. Desalting eliminates the nuisance of frequent refining shut downs caused by salt plugging, hard coking and HCl corrosion. Desalting insures greater capacity, longer runs, and smoother operations. If you're having any salt difficulties, get in touch with us. We've helped some mighty good refining men shake the salt problem out of their hair. *The Petreco process is not expensive;* a Texas refiner recently figured his Petreco desalter paid off in less than six months. Get in touch with a Petreco engineer–he'll show you the figures!

**PETROLEUM RECTIFYING COMPANY**
5121 South Wayside Drive, Houston 1, Texas
648 Edison Building, Toledo 4, Ohio
530 West Sixth Street, Los Angeles 14, Calif.

PR48-2

# PETRECO

SPECIALIZED *Electric* PETROLEUM PROCESSES { DESALTING / DEHYDRATING

# Field Development

PREPARED FROM CALIFORNIA OIL WORLD NEWS SERVICE

# Los Angeles Basin

## Seal Beach Well Pumps

Marine Exploration Company's State No. 2 well on Sec. 11-5s-12w, a mile offshore Seal Beach, has been finished at a total depth of 12,131 ft. for an initial yield of 74 barrels daily on the pump. Interesting is the fact the well is only 5300 ft. below the surface of the ocean, with the remaining 7000 feet horizontal. In reaching out for subsea beds, it was necessary at times to have the holes as much as 65 degrees off vertical. The well is cased with no less than six strings to protect the hole as drilling progressed at an increased angle.

The company is understood to have some 1400 acres of submerged land on permit. Present plans call for construction of a steel island offshore for the drilling of straight holes.

This is Marine Exploration's third try in the area. The first well travelling out under the breakers was finished as a gas well. It flowed until the liner gave out and the well then was abandoned. A followup job ran into mechanical difficulties and quit.

Marine Exploration is one of the many Jergins interests.

## Newhall Test Sets Casing

R. W. Sherman has cemented casing at 5774 ft. and water shut off is okay in his Newhall Comm. No. 3-1 wildcat on Sec. 2-3n-16w, southeast of the Newhall-Potrero field. In the no dope category, the well unofficially is credited with several hundred ft. of alternate oil sand stringers and shale behind pipe in what is construed as the fifth Barnsdall zone at the Newhall-Potrero field. Top Miocene is placed between 5100 and 5200 feet, with present depth of the well 5779 ft. High cash bonuses were reported being offered for available ground in the area. Since this writing the well has been completed, flowing 1140 bbls. of 40.0° gravity clean oil daily.

## Castaic Try Digs

British-American and Humble Oil are drilling below 850 ft. with their Wayside Honor No. 1 wildcat on Sec. 1-4n-17w on the Los Angeles County Honor Farm at the eastern end of the Ventura Basin near Castaic. The project is likely to take a look at all formations to a depth approximating 9000 ft.

## Solemint Try Drills

Three miles northwest of Placerita Canyon development, A. Charles Lantz is drilling at 800 ft. in his Lantz No. 1 wildcat on Sec. 27-4n-15w in the Solemint area. In Mint Canyon, S.D.M. Oil Company is starting a wildcat called Orvel No. 1 on Sec. 1-4n-15w.

## Torrance Well Works

Zuni Oil Company is completing its Zuni No. 2 well on Sec. 9-4s-14w in the Torrance field. Drilled to a total depth of 5007 ft., the project plugged back to 3700 ft. and is being given the finishing touch in the

**E. B. Hall and Co., drilling contractors, drilling U.P. No. 255 in the Wilmington Field, left to right: M. T. Winstead, cathead; R. A. Marshall, lead tong; C. C. Wilson, pipe racker; G. E. Willey, derrick; George Proud, driller.**

Main zone. Located on the northern flank of the field, the well was drilled to test possible oil sand below the normal horizon. Events, however, indicate the lower sands were of no value.

## Lawndale Well Flows

Seaboard Oil's New Pauley-Seaboard No. 83-20 on Sec. 20-3s-14w in the Lawndale field currently is putting out 245 barrels of oil and 240,000 cubic ft. of gas a day from 8213 ft. The company's Seaboard Comm. No. 8-1 on Sec. 17-3s-14w is drilling at 7850 ft.

## Placentia Test Vain

Oil production eluded Seaboard Oil and Universal Consolidated with their Christiensen No. 1 wildcat on Sec. 5-4s-9w near Placentia in Orange County. The drill probed to 5100 ft. and gave up.

## West Newport Test Staked

Bayshore Oil Company has staked location for No. 5 on Sec. 18-6s-10w, a D-4 zone test in the West Newport area, Orange County. D. D. and Dorothy Dunap's Aldrich Land No. 12 on the section showed oil on test of the D-3 zone, with hole bottomed at 4940 ft. and casing set at 4815 ft. The well, however, will be drilled ahead and completed in the D-4 zone, expected at 4960 ft.

## Inglewood Try Fails

Centinella Oil Company's Centinella No. 1 wildcat on Sec. 4-3s-14w, southwest of the Hollywood Park race track, has been abandoned at 4000 ft. All sand cores were apparently gray and barren.

## Chino Hills Test Coring

In the Chino Hills area in San Bernardino County, Grayco Oil Company's Grayco No. 2 on Sec. 13-3s-8w is coring ahead at 2650 ft. Hancock Oil, meantime, has suspended its Abacherli No. 1-A in the section. Detailed information on the well as yet has not been revealed by the company. Casing was set at 1907 ft., with total depth 2628 ft.

## Newhall Try Going on Pump

Indian Oil Company's Wanda Kraft No. 4 on Sec. 31-5n-15w near Placerita Creek in the Newhall area is installing pump. Total depth is 650 ft. Nelson-Phillips Oil Company has made location for Swall-Ferrier No. 3 on Sec. 31-4n-15w.

## Athens Try Digs

At Northwest Athens, Shell Oil's Union-Poindexter No. 2 is drilling at 8850 ft. on Sec. 12-3s-14w. J. Paul Getty's Howard Park Fee No. 2 on Sec. 7-3s-13w is drilling below 4000 ft.

## Brea Project Water Troubled

Pacific Western at last reports was endeavoring to shut off water complicating normal procedure in its Brea Comm. No. 2-1, a slant drilled job under the town of Brea in Orange County. Drill site falls on Sec. 11-3s-10w.

Fast, easy installation is one important feature of ARMCO Welded Steel Pipe.

Lengths up to 40 feet mean fewer joints and less assembly work. Handling and hauling are speeded because ARMCO Pipe is not burdened by excess weight. The work moves fast.

ARMCO Pipe is available in diameters from 4 to 24 inches with gages from No. 16 to No. 3. You can select the one *right* size for every job. Write for prices and other information.

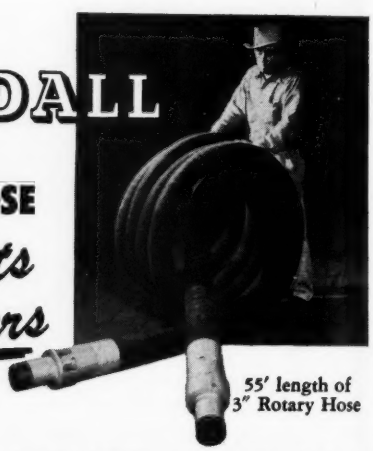
**ARMCO DRAINAGE & METAL PRODUCTS, INC.**
CALCO DIVISION

2610 Seventh St.
Berkeley 10, Calif.

6155 S. Malt Ave.
Los Angeles 22, Calif.

ARMCO WELDED STEEL PIPE

NEW
GOODALL
FLEXO
ROTARY HOSE
*Outlasts all others*



55' length of 3" Rotary Hose

NEW construction gives Goodall "Flexo" Rotary Hose higher strength, greater flexibility, and longer life . . . Flexo lasts so long it cannot be compared with any other hose. So flexible we pack a 55' length of 3" hose in a 63-inch box! So light in weight special loading racks are unnecessary! It safely withstands bending that would immediately ruin ordinary Rotary Hose. All this plus the Barney Coupling, which is even stronger than the hose, gives you the finest Rotary Hose on the market! Write for folder today!

**Other Goodall Products:**
**All types Hose, Packing, Rubber Footwear, and Waterproof Clothing.**

GOODALL RUBBER CO.
LOS ANGELES • SEATTLE
• SALT LAKE CITY • SAN FRANCISCO

# San Joaquin Valley

## Guijarral Hills Well Widens Area

Standard of California appears to have widened the Guijarral Hills area in Fresno County. The well, Fee No. 7-35F on Sec. 35-20s-16e, cored the top of the Leda oil sand at 8716 ft. Coring was continued on down from 8716 ft. 8730 ft. where a stop was made to run electric log. Standard's well is a northeasterly offset to Barnsdall Oil's Smith No. 1 discovery, which came in last September. It flowed initially at the rate of 830 barrels daily.

One location south of the discovery well, Barnsdall is drilling at 6550 ft. with its Jessel No. 31-2-1 on Sec. 2-21s-16e. Further south about a mile, Universal Consolidated's Orr No. 1 on the section is drilling shale at 8725 ft. R. S. Lytle, Operator, is drilling at 7010 ft. in R. E. Smith No. 68 on Sec. 34-20s-16e. This is a westerly offset to the discovery. Barnsdall's Allison No. 84-34-1 on Sec. 34-20s-16e, one-half mile north of the pool opener on the section, is making hole ahead in shale below 7500 ft.

## Panoche Creek Wildcat Quits

Wildcat efforts of Jergins Oil with its Escarpedo No. 48 on Sec. 28-14s-12e near Panoche Creek in Fresno County failed of their purpose and the well has been given up at 4300 ft.

## Comanche Point Explorer Starts

One mile north of established production at Comanche Point, T. & E. Drilling Company of Bakersfield is ready to spud Tejon Claire No. 1 test on Sec. 36-32s-29e. Location falls 1908 ft. north and 396 ft. west from the southeast corner of the section.

## Cholame Venture Electric Logged

The interval of 940-1140 ft. in Cholame Oil Company's Keller No. 1 on Sec. 17-25s-16e in the Cholame area of San Luis Obispo County apparently showing something of interest on electric log run. A formation trial or the setting of casing will be the next move. The hole is bottomed at 1505 ft. E. T. Willard's Jacks No. 1 test on Sec. 20-25s-16e on the Rancho Cholame is reported suspended temporarily at 840 ft.

## Santa Margarita Wildcat Planned

Santa Margarita Land & Cattle Company of San Francisco has begun work on a test well on Sec. 16-29s-13e in the Rancho Santa Margarita area, San Luis Obispo County. Tagged China Gardens No. 1, the well will seek new oil on ground about two miles northwest of the townsite of Santa Margarita. The company is headed by W. D. Reis, with headquarters at 311 California street in the Bay City.

## Carrizo Plains Wildcat Drills

In the Carrizo Plains area, Union Oil is drilling at 1450 ft. with its Wreden No. 1 wildcat test on Sec. 17-29s-17e, after setting pipe at 1093 ft. The company holds substantial acreage in the area, which is adjacent to Cuyama Valley.

## Jacalitos Well Good

Standard of California has completed its No. 27E-36 on Sec. 27-21s-15s in the Jacalitos area for a yield of 160 barrels of oil and 80,000 cubic ft. of gas daily from 3710 ft. No. 21E-38 on Sec. 21 is drilling at 2200 ft.

## Mount Poso Well Slated

Golden Bear Oil Company has location staked for its Buckley No. 1 test on Sec. 23-26s-27e in the Mount Poso area of San Joaquin Valley.

## Antelope Hills Project Gives Up

Having encountered nothing of commercial oil interest to a total depth of 3865 ft., F. L. Williams is quitting his well No. 2 on Sec. 1-28s-19e in the Antelope Hills area, Kern County.

## Curry Mountain Wildcat Quitting

Prospect efforts of Barnsdall Oil through the medium of its Emme Government No. 1 well on Sec. 35-21s-14e in the Curry Mountain area of Fresno County divulged little of interest and the hole is being abandoned. Drilled to a total depth of 2731 ft., core from the interval of 2714-2729 ft. showed a recovery of 15 ft. of shale.

**J. D. Hooper Drilling Co., contractors for Royalty Service Corp.'s well Nelson No. A-5 in the Wilmington Field. Left to right: E. R. Hoffman, backup; O. L. Hooper, driller; R. W. Price, lead tong; D. J. Pennington, cat head; Jake Bateman, Atlas Production Co., Santa Fe Springs; T. E. Young, derrick.**

# WILSON offers machine capacity and repair facilities unmatched in the VENTURA AREA

**THERE'S NO NEED to make long hauls to Los Angeles for repairs, reconditioning or special fabrication of equipment when WILSON men, machines and know-how are so convenient! WILSON gets your jobs done on short notice, saves freight costs and down-time. Machines are available for routine or highly specialized operations. Check over our facilities listed below then call WILSON when you want quality workmanship . . . quick!**

**ALL TYPES of MACHINING:**

Threading, Milling, Shaping, Turning, Drilling, Boring, Internal Grinding.

Facilities and equipment unmatched for size and completeness in any oil field north of Los Angeles. Machines include large Boring Mills, Radial Drills, Vertical Turret Lathes and Internal Grinders of unusual capacity, besides the usual complement of engine lathes and similar equipment. *WILSON has the tools with capacity to handle jobs that can't be touched by smaller shops in outlying areas!*

**HEAT TREATING and FORGING:**

One part or many, WILSON renders a competent heat-treating service on hardening, annealing, normalizing, carburizing or drawing operations. Heavy forging or bulldozing of steel billets to shape is possible with our steam hammer and special hydraulic "bulldozer." We'll cut your time in obtaining forged shapes or in forming special contours.

**WELDING, BURNING, HARD-FACING:**

Permanently installed welding equipment as well as five portable trucks handle all welding problems encountered . . whether oxyacetylene or electric equipment is required—in the plant or on the job! Our multiple-head pantographic cutting torches make short work of producing duplicate shapes, and welders skilled in fabrication as well as hardfacing are at your service day or night.

**TESTING and ASSEMBLING:**

**PRESSURE TESTING:** Hydro-static pressures for testing all fittings and assemblies up to 10,000 p.s.i. are developed by our special Kobe Hydraulic Pump. Even higher pressures are obtainable with our booster unit. WILSON will test your assemblies for insurance against leaks, or fabricate complete Christmas tree assemblies, tested, ready for delivery.

**MAGNAFLUX TESTING:** Where invisible cracks or defects are suspected, rely on our MAGNAFLUX unit and trained operators for spotting trouble points. Pressure testing plus Magnaflux eliminates all gamble on blowouts!

**SPECIAL SERVICES:**

Pipe Straightening, Pipe Threading, Tool Joint Resleeving, Tool Joint Refacing, Tool Reconditioning.

We'll take the kinks out of your drillpipe, Kellys and drill collars—send them back straight and true, good for a lot of extra footage. If tool joints are worn, new sleeves are shrink-fitted and welded on, even hardfaced if you want 'em.

That desirable satin-smooth finish on new compressor cylinders is duplicated on worn ones with our internal grinder—even on the biggest cylinders. Don't forget our reconditioning facilities: Crown blocks, swivels, rotary tables, draw works, sand reels—No job too large for WILSON!

**ACCURACY and WORKMANSHIP:**

These qualities are a WILSON tradition. Good men, good tools* and high ideals are your assurance of dependable work, always.

**One of the few shops in the country equipped with A.P.I. Master Gauges tested and approved by U. S. Bureau of Standards!*

**If you have a machining problem, a repair job or need the extensive facilities of this organization, call WILSON today! Telephone Ventura 5407.**

**WILSON OIL TOOL CORP., LTD.**

816 N. Ventura Ave.,
VENTURA, CALIFORNIA
Phone Ventura 5407

## Delano New Wildcat Scene

Humble Oil & Refining is about to spud its Di Giorgio No. 1 test on Sec. 20-24s-26e in the Delano area of Tulare County. It will hunt for oil in the southern part of the county, northwest of Bakersfield. Drill site is centrally located on a 13,000-acre block of leases. Exploration probably will go to a minimum depth of 7500 ft. The company has several interesting blocks in California. Two or three of these leaseholds are designed to begin moving ahead before the end of 1948.

## Gosford Try Digs

In the Gosford area of Kern County, Hancock Oil is drilling ahead at 7300 ft. with its KCL No. 85-23 test on Sec. 23-30s-26e.

## Kettleman Hills Wells Flows Water

Trial of an undisclosed interval in Standard of California's S.F. & F.L. No. 4-2 test on Sec. 12-25s-19e at Kettleman Hills South Dome resulted in a flow of hot, fresh water. Total depth is 12,922 ft. The company's S. F. & F. L. No. 68 on Sec. 4-24s-19e at Middle Dome is drilling ahead at 4482 ft. Middle Dome Corporation's No. 30V-52 on Sec. 30-23s-19e is drilling shale below 8000 ft.

## Cuyama Valley Lively Center

Cuyama Trust Syndicate's Marilyn No. 1 at Cuyama on Sec. 25-11n-28w, between the Cuyama River and the main highway, has been cleaned out to 4400 ft. and is ready to resume drilling operations. Bandini Petroleum is drilling below 2100 ft. in its Graham No. 2 on Sec. 33-11n-26w. Hancock Oil's Quality No. 67-31 on Sec. 31-11n-27w is coring at 3250 ft. Field reports intimated that the project has cored oil sand in encouraging measures. At the west end of the valley, General Petroleum is making hole with its test well on Sec. 5-10n-28w. The well was just spudded in and is drilling in the shallower formations. Richfield Oil has staked location for F. R. Anderson No. 18-32 on Sec. 32-11n-27w, one location east of Quality No. 88-31, which was finished flowing at the rate of 900 barrels a day. The company also is starting another well on the Cebrian Estate. Schlauderman No. 1 on Sec. 23-11n-28w has reached 3225 ft. and is fishing. Showings are reported all the way down from 2400 ft .

## Elks Hills Test Plugs

Standard of California is plugging back from 11,200 ft. to 7000 ft. its No. 326-28B on Sec. 28-30s-23s on the Elks Hills Naval Petroleum Reserve. The deepest well ever drilled at Elk Hills, it was launched as a seeker of production below the Stevens zone, a hunt obviously unsuccessful.

## Aliso Canyon Tests Drilling

Standard of California has two test wells drilling in the Aliso Canyon area. Del Aliso No. 1-3 is redrilling at 5980 ft. Frew No. 1-6 is drilling at 7580 ft. They are located on Sec. 29-3n-16w.


# The New John Zink -CBM- BI-MIX BURNER

The John Zink BI-MIX GAS BURNER has been combined with a Steamizer type Oil Burner to produce a highly efficient COMBINATION oil and gas burner identified as Series CBM. It provides approximately the same heat pattern when firing either or both fuels in combination.

Uses steam or high pressure gas for oil atomization.

Burns any properly prepared commercial grade of fuel oil, and any gaseous fuel at pressures in excess of 5 pounds.

WRITE FOR LITERATURE

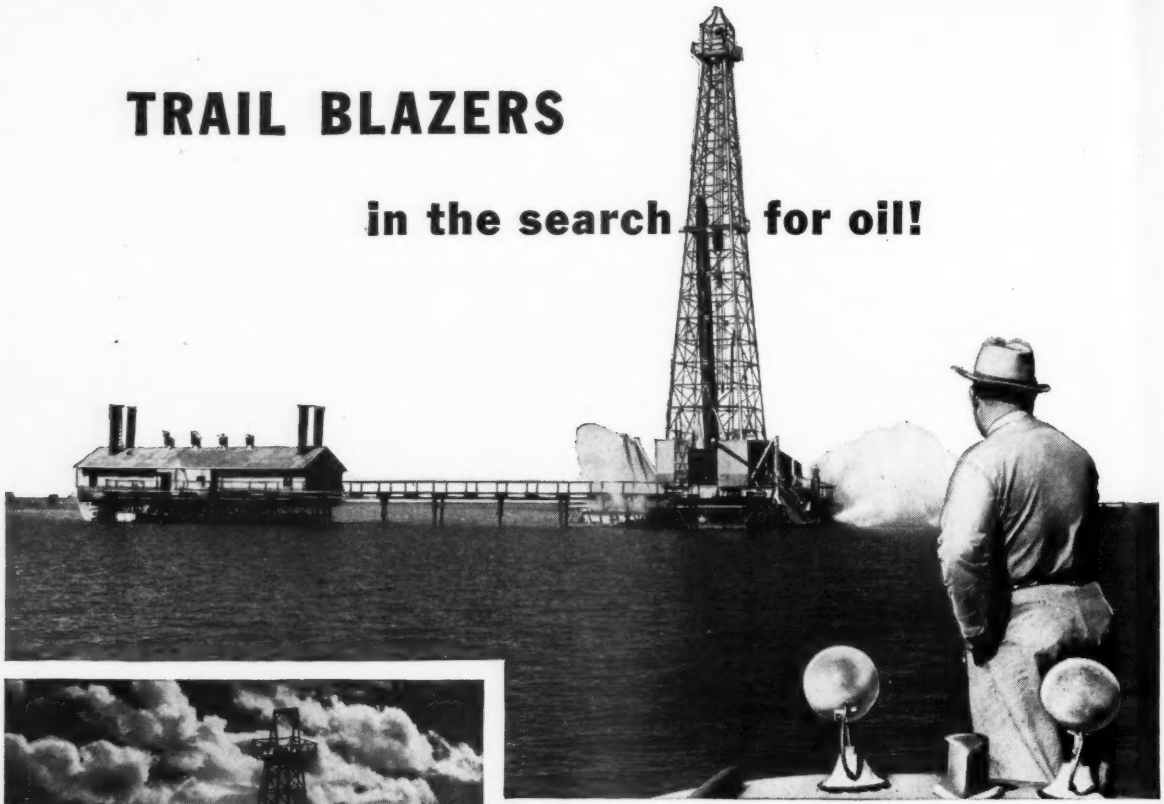
## JOHN ZINK COMPANY

4401 South Peoria — Tulsa 1, Oklahoma

Representative: S. G. Higginbotham, 403 W. 8th St., Los Angeles

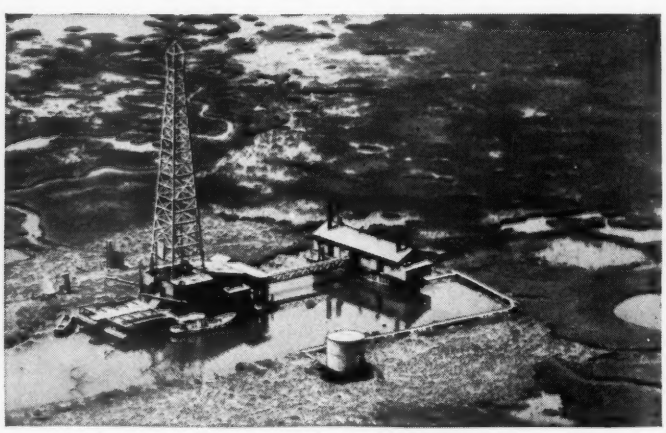
# TRAIL BLAZERS

## in the search for oil!



*A submersible drilling barge on the Gulf Coast—this type of underwater drilling operation was developed by The Texas Company and adopted by the industry . . . another Texaco contribution to the vital search for oil.*

*Highest oil field in the U. S., with wells up to 8,378 feet above sea level, is at Wilson Creek, Colorado. Crude from this mountain field helps meet the demands of Texaco's far flung refineries.*



*One of the world's deepest producers, is Texaco's Lafourche Basin Levee, District No. 1 in the Queen Bess Island area in Louisiana. Total depth of this record breaker is 15,523 feet. Texaco stands near the top of the list of companies engaged in deep drilling.*

To help meet the growing need for oil, The Texas Company is boosting exploratory work . . . building new research facilities . . . supporting expansion in synthetics . . . assisting in the development of foreign fields to reduce drain on U. S. crudes . . . and promoting consumer conservation.

**THE TEXAS COMPANY**

**Petroleum Promotes Progress**

TEXACO

REG. T.M.

# Coastal and Northern District

## Monterey County Still Developing

Northeast of San Ardo production at Peachtree Bow in Monterey County, Texas Company is spot coring and drilling on down below 3000 ft. with its Ringaman No. 1 test on Sec. 35-20s-11e. The company's Orradre No. 2 at San Ardo, a southeast extension well on Sec. 13-23s-10e, is putting out 25 barrels of net oil daily on the pump from 3034 ft., after the tubing was raised 152 ft. Independent Exploration and Oceanic Oil's Cooper No. 1 on Sec. 13-21s-8e has been abandoned at 1495 ft. in Gneiss. The Monroe area of the county also has chalked up an abandonment. It was Texas Company's Beedy No. 1 on Sec. 32-19s-7e, which came to a disappointing end at 5147 ft. In Indian Valley, Barnsdall Oil's Kelch No. 1 on Sec. 23-23s-12e is making hole ahead at 2450 ft. Jergins and North American is fishing drill pipe stuck in Orradre No. 150-12 on Sec. 12-23s-10e.

## Yolo County Test Quitting

Shell Oil's Saxon Unit No. 1 gas test on Sec. 7-7n-3e in the Saxon area of Yolo County has been abandoned. Drilled and cored to a total depth of 600 ft., formation test from 4099 to 4132 ft. showed a recovery of water. Formation trial of the interval of 3598-3670 ft. recovered gassy, muddy water.

## Santa Ynez Try Drills

Ohio Oil's Unit No. 1 prospect hole on Sec. 1-5n-30w in the Santa Ynez area is drilling ahead in hard shale at 3275 ft.

## Guadalupe Well Tests

Continental Oil Company's LeRoy No. A-1 on Sec. 2-10n-36w on test, with packer at 2560 ft. and open 30 minutes, showed a light steady blow for 3 minutes and nothing the remainder of the trial. Recovery was made up of a 10-ft. rise of drilling fluid. Total depth is 2766 ft., with top of the Foxen sand placed at 2692 ft.

## Marin County Wildcat Works

At Bolinas in Marin County, L. M. Lockhart is drilling at 4400 ft. in R.C.A. No. 3-1 on Sec. 26-1n-8w. The operator also is sponsoring a test well in the Black Mesa Basin of Arizona. It is on Sec. 21-27n-9e and known as Babbitt No. 1. It has reached a depth near 3000 ft.

## Bardsdale Try Listed

Union Oil is starting a deep test in the Bardsdale area of Ventura County. It is known as Dryden No. 2 on Sec. 13-3n-20w. The company's Omega No. 3 on Sec. 1-3n-20w has reached 980 ft. Cleveland Oil is ready to drill Elkins No. 4, an Eocene test on Sec. 7-3n-19w.

## Island Test Drills Ahead

On Santa Rosa Island off the Santa Barbara coast, the Signal-Honolulu-Macco combination is drilling Soledad No. 1 on Twp. 2n-31w at 2550 ft. Location is near an earlier test well, which found showings, but of the sub-commercial variety.

## Hopper Canyon Try Abandoned

No showings were encountered to a bottom of 3882 ft. and Richards & Rowan has abandoned its Cosby No. 1 try in Hopper Canyon on Sec. 14-4n-19w, Ventura County.

## Solano County Gas Try Fails

At Denverton in Solano County, Honolulu Oil's McCormack Estate No. 2 on Sec. 36-5n-1w has been abandoned at 2496 ft. Bottomed in shale, no showings were found and no tests made of the well.

## Montalvo Try Deep

Growing deeper is Superior Oil's Limoneira No. 1 on Sec. 9-2n-22w in the North Montalvo area. Drilling is proceeding at 11,950 ft. Standard of California has several jobs at Montalvo drilling at inconclusive levels.

## Sespe Try Drills On

Merchants Petroleum's Bonebrake No. 1 try on Sec. 6-4n-19w in the Sespe area is drilling ahead at 1540 ft. A show of oil sand was reported encountered somewhat

**At Royalty Service Corporation's well, Gilmore No. 842-2, Blackwell and Sunde, drilling contractors, left to right: L. G. Purkey, pusher; Jack Howry, derrick; S. M. Queen, floorman; Bill Horton, floorman.**

# INCREASED WELL SERVICING EFFICIENCY

Wilson

## SUPER MODEL WINCH

Recommended for wells 3500 to 5000 feet 2½" tubing

Shown with Buda 428 engine and 6241 Brown-Lipe transmission Drum 32" diameter, 45" long, 13" diameter barrel, 8" wide brakes. Cut shows streamline guards on this machine.

Wilson

## SENIOR MODEL WINCH

Recommended for wells up to 3500 feet. 2½" tubing

Note full length countershaft with catheads on both ends. Rotary drive sprocket and clutch can be substituted for left cathead. Shown with seat control. Derrick Floor control is standard.

write for the new WILSON Silver Anniversary Catalog.

Longer life, faster operation, more time on the job is what you get when your winch is a Wilson. Powerful, self-energizing brakes give instant response when needed. Jaw or friction clutches are optional, each the best of its type (Super and Mogul Models can be equipped with the Wilson Air-Tube Disc Clutch). Four or eight forward speeds and one or two reverse speeds make these winches flexible enough for all requirements . . . complete reinforcement gives unsurpassed strength and ability to withstand punishment.

★

- CAST, SEMI-STEEL BRAKE RINGS machined after assembly for true running braking surface
- WILSON DISC TYPE FRICTION DRUM CLUTCH, or FREE ROLLING JAW CLUTCH DRUMS, optional
- FULL HARDENED, DOUBLE STEP, REPLACEABLE JAW CLUTCHES
- CAM OPERATED, FULLY EQUALIZED SELF-ENERGIZING BRAKES, OF FULL WRAP TYPE
- ALLOY STEEL, DOUBLE HEAT TREATED SHAFTS, accurately ground to size
- SPLINED SHAFTS wherever possible
- HEAVY DRUM BARRELS, reinforced inside
- DRUM ENDS REINFORCED WITH HEAVY "T" SECTION RIBS
- DRUM BEARING BOLTS CLEAR THROUGH FRAME

# POWER RIG & EQUIPMENT CO., INC.

PRE
SERVICE • • • • SALES
POWER RIG EQUIPMENT

5141 Anaheim-Telegraph Road • Los Angeles 22, California

FORMERLY THE H & B SALES COMPANY, LTD.

RUFNEX SEZ:

LJS

PLUG VALVES
ELIMINATE
VALVE LUBRICATION
WORRIES

RENFRO

2417 Porter St.
Los Angeles 21, Calif.
TRinity 4023


higher in the hole. The well is on the Bonebrake property which adjoins the company's Cochran lease, where fire recently disrupted normal production operations. The wells, however, are now all back on production.

## Folsom Try Interesting

Benjamin W. Vinetz is starting an interesting gas test on Sec. 9-9n-6e on the Barrett Ranch in the Folsom area of Sacramento County. Drilling is foreseen as going to at least 5000 ft. in the event shallower formations fail to produce.

## Refugio Try Digs

Texas Company is drilling Johnson No. 1 in the Refugio area below 1000 ft. The well is two miles northwest of the Refugio field on Sec. 26-5n-31w, Santa Barbara County.

## Parkfield Test Listed

Slayton Drilling Company of Taft is ready to drill another test in the Parkfield area, Monterey County. Labeled Colgrove-Taylor No. 88-15, the project will drill on Sec. 15-23s-14e, approximately a half mile north of the first well, which was abandoned in the middle of last October at 3200 ft. The first test performed with a flow of water and a scum of oil.


SMITH - EMERY CO.
Since 1904
Oils Tested
Shipments Certified
Tanks Strapped
Offices and Laboratories
920 Santee St.
Los Angeles

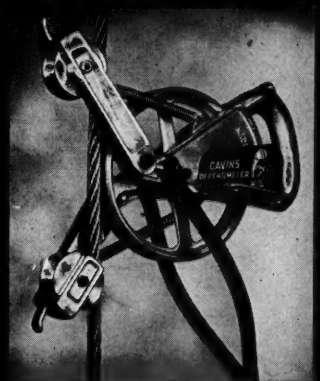

## Olivera Canyon Test Completing

Production equipment is being rigged to Union Oil's McCroskey No. 5 test on Sec. 21-9n-32w in the Olivera Canyon area, Santa Barbara County. Wickenden No. 3-28 is drilling at 4056 ft. It is on Sec. 28-9n-32w.

## Long Beach Well Coring

At Northwest Long Beach, General Petroleum's Los Cerritos No. 1 on Sec. 13-4s-13w is drilling and spot coring at 9510 ft. Shell Oil is running liner in its Alamitos No. 50 on Sec. 29-4s-12w, after plugging back from 8993 ft. to 8761 ft.


Here's the Accurate Way to take Wire Line Measurements



Easy to use

Light and handy to carry

No more "Stringing in" Guess Work

Gives you accurate depth

Direct reading

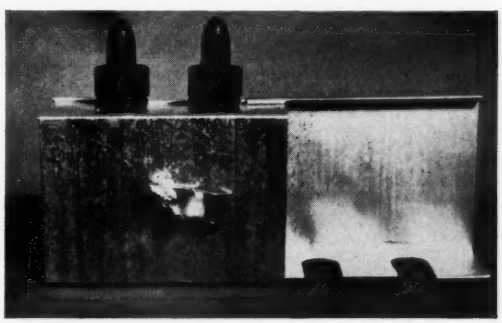
Pays for itself in a short time

Hundreds of Cavins Depthometers are in successful service giving their owners direct-reading, accurate well measurements. This strong, simple device comes in a handy carrying case (weighs only 17 pounds)—is put on the line in a few seconds, and tells you where bottom is quickly and dependably. —Write for folder to The Cavins Co., 2853 Cherry Ave., Long Beach 6, California.

THE CAVINS DEPTHOMETER



INK BOTTLE HOLDER



For Westcott or Foxboro Meters.
Fastens to piping around meter.
No more messy bottles.
Prevents spilling or breaking ink bottle. Allows easy method of inking chart pens.
Price $1.25 each. Discount for quantity order.

Also Distributors of Commercial Type "CN" Orifice Fittings, Orifice Meters, Leveling Saddles, Meter Runs, Straightening Vanes, Drip Pots, Regulators, Thermometer Wells, Pressure Gauges.

GORDON Z. GREENE CO.

DISTRIBUTORS OF OIL & GAS SPECIALTIES
2335 east eight street Los Angeles 21, Calif. TUcker 9537

# California Oil World's Monthly Summary

## CALIFORNIA DEVELOPMENT AND PRODUCTION

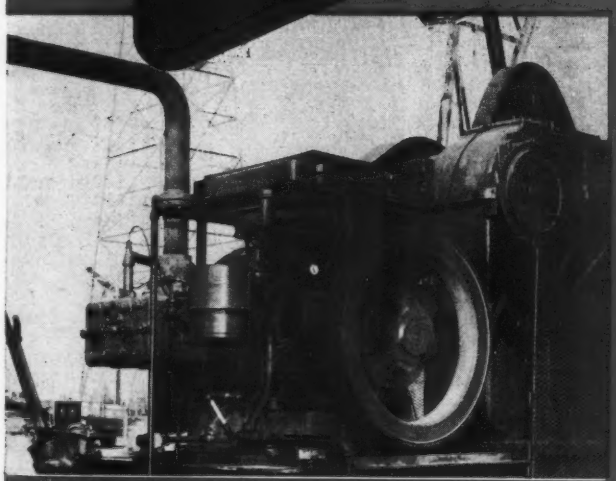
| | SEPTEMBER, 1948, DEVELOPMENT | | | | PRODUCTION | |
|---|---|---|---|---|---|---|
| | Active Drilling Wells | Oil Wells Completed | Initial Production B/D | Oil Wells Completed First 9 Months | Daily Average September 1948 | Daily Average September 1947 |
| **SAN JOAQUIN VALLEY REGION** | | | | | | |
| Ant Hill | | | | | 962 | 1,409 |
| Antelope Hills | | | | | 439 | 1,401 |
| Bellevue | | | | | 265 | 317 |
| Belridge—North | | | | 1 | 2,732 | 4,833 |
| Belridge—South | 1 | 2 | 90 | 27 | 8,381 | 4,971 |
| Blackwell's Corner | | | | | 134 | 158 |
| Buena Vista | 3 | 1 | 83 | 10 | 43,335 | 47,347 |
| Canal | | | | | 500 | 1,964 |
| **Coalinga Group** | | | | | | |
| Eastside | 4 | 4 | 929 | 51 | 13,544 | 15,208 |
| Oil City | | | | | 70 | 87 |
| Coalinga—Nose | | | | | 52,878 | 52,749 |
| Coalinga—Northeast | | | | 3 | 10,037 | 9,207 |
| Guijarral Hills | | 1 | 827 | 1 | 191 | |
| Pleasant Valley | | | | 1 | 3,945 | 4,322 |
| Jacalitos | 2 | 3 | 245 | 16 | 4,753 | 4,619 |
| Westside | 3 | 4 | 114 | 31 | 6,703 | 6,764 |
| Coles Levee—North | | | | 5 | 3,831 | 17,059 |
| Coles Levee—South | | | | 1 | 291 | 3,195 |
| Edison | 2 | 1 | 220 | 21 | 11,071 | 11,191 |
| Elk Hills | 3 | | | 3 | 5,563 | 3,835 |
| Fruitvale | | | | 3 | 6,805 | 6,141 |
| Greeley | 1 | | | | 13,877 | 14,068 |
| Helm | | | | | 3,206 | 4,280 |
| Kern Bluff | 1 | 5 | 382 | 40 | 1,662 | |
| Kern Front | 1 | 1 | 12 | 36 | 8,155 | 8,947 |
| Kern River | 7 | 20 | 473 | 213 | 8,925 | 10,382 |
| Kettleman North Dome | 3 | 1 | 190 | 8 | 34,444 | 35,813 |
| Lanare | | | | | 1,438 | 1,683 |
| Lost Hills | 3 | 3 | 594 | 61 | 6,548 | 5,924 |
| **McKittrick Group** | | | | | | |
| Belgian Anticline | 2 | 1 | 288 | 2 | 1,162 | 736 |
| Cymric | | | | 52 | 15,216 | 16,249 |
| McKittrick | | 1 | 12 | 4 | 1,672 | 2,857 |
| McKittrick Front | | | | 3 | 1,949 | 1,704 |
| Salt Creek | | | | | 5,836 | 7,494 |
| Sheep Springs | | | | | 603 | 998 |
| Temblor Ranch | | | | | 90 | 121 |
| Midway-Sunset | 3 | 9 | 592 | 82 | 35,876 | 43,506 |
| Mt. Poso Group | | | | 15 | 10,227 | 13,816 |
| Mountain View | 3 | 4 | 416 | 10 | 3,242 | 5,268 |
| Paloma | 7 | | | 22 | 12,280 | 9,651 |
| Poso Creek Group | 1 | 1 | 13 | 9 | 3,178 | 3,481 |
| Pyramid Hills | 1 | | | | 228 | 245 |
| Race Track Hill | | 1 | 66 | 4 | 1,962 | 2,103 |
| Raisin City | 1 | | | 6 | 2,828 | 2,443 |
| Rio Bravo | | | | | 12,093 | 12,347 |
| Riverdale | | | | 1 | 3,016 | 4,324 |
| Round Mountain Group | 1 | 2 | 110 | 15 | 5,605 | 8,146 |
| Russell Ranch | 7 | 5 | 2698 | 15 | 412 | |
| Strand | | | | | 75 | 1,219 |
| Strand—East | | | | | 90 | 503 |
| Tejon Ranch | | | | 5 | 2,811 | 3,469 |
| Ten Section | 1 | | | 3 | 1,879 | 7,434 |
| Union Avenue | | | | | 199 | 310 |
| Wasco | | | | | 150 | 199 |
| Wheeler Ridge | 1 | | | 9 | 242 | 209 |
| Other Fields | 4 | 2 | 23 | 32 | 1,259 | 771 |
| TOTAL—San Joaquin Valley Region | 66 | 72 | 8,377 | 821 | 378,865 | 427,477 |
| **COASTAL REGION** | | | | | | |
| **Santa Maria District** | | | | | | |
| Barham Ranch (Los Alamos) | | | | | 9 | |
| Casmalia | 2 | 1 | 275 | 8 | 1,160 | 752 |
| Cat Canyon—East | | 1 | 13 | 1 | 643 | 801 |
| Cat Canyon—West | 3 | 4 | 879 | 37 | 9,655 | 10,943 |
| Four Deer | 1 | 1 | 72 | 5 | 892 | 256 |
| Gato Ridge | 1 | | | 1 | 2,192 | 3,607 |

| | SEPTEMBER, 1948, DEVELOPMENT | | | | PRODUCTION | |
|---|---|---|---|---|---|---|
| | Active Drilling Wells | Oil Wells Completed | Initial Production B/D | Oil Wells Completed First 9 Months | Daily Average September 1948 | Daily Average September 1947 |
| **COASTAL REGION—Continued** | | | | | | |
| Guadalupe | 1 | | | 1 | 24 | |
| Lompoc | | 3 | 532 | 24 | 3,592 | 5,037 |
| Olivera Canyon | | 1 | 71 | 4 | 589 | 2 |
| Orcutt | 2 | | | 13 | 2,777 | 4,761 |
| Santa Maria Valley | 1 | 1 | 87 | 15 | 13,246 | 23,602 |
| Tinaquaic | 2 | | | | 69 | 14 |
| Zaca Creek | | | | 7 | 358 | 593 |
| **Santa Barbara District** | | | | | | |
| Capitan | | | | 2 | 2,267 | 3,312 |
| Coal Oil Point | 1 | | | | 2 | |
| Elwood | 1 | | | 5 | 7,386 | 6,921 |
| Santa Barbara | 1 | | | | 53 | 90 |
| Summerland | | | | | 2 | 3 |
| **Ventura District** | | | | | | |
| Montalvo West | 1 | 1 | 672 | 3 | 365 | 133 |
| Padre Canyon | 2 | 4 | 2,141 | 13 | 3,663 | 3,283 |
| Rincon | | | | 2 | 1,794 | 3,485 |
| San Miguelito | 2 | | | 5 | 649 | 4,982 |
| Ventura Avenue | 4 | 1 | 1,041 | 20 | 13,938 | 51,480 |
| **North Santa Clara District** | | | | | | |
| Del Valle | 5 | 2 | 459 | 17 | 9,457 | 8,673 |
| Hopper Canyon | | | | | 157 | 206 |
| Oak Canyon | | | | 1 | 1,941 | 1,947 |
| Sespe Canyon Group | | 1 | 78 | 2 | 133 | 197 |
| Temescal | | | | 1 | 553 | 587 |
| Others | 2 | | | 5 | 344 | 330 |
| **South Santa Clara Valley District** | | | | | | |
| Aliso Canyon | 2 | | | 6 | 882 | 3,416 |
| Bardsdale | 4 | 1 | 36 | 13 | 1,000 | 459 |
| Newhall-Potrero | 5 | 1 | 477 | 9 | 7,628 | 6,679 |
| Oxnard | 1 | | | | 1,148 | 1,530 |
| Shiells Canyon | | | | 3 | 342 | 1,064 |
| South Mountain | 4 | | | 17 | 4,116 | 5,159 |
| West Mountain | 1 | | | 5 | 930 | 888 |
| Others | 3 | 6 | 272 | 23 | 1,122 | 881 |
| Miscellaneous | 2 | 1 | 73 | 15 | 867 | 174 |
| TOTAL—Coastal Region | 54 | 30 | 7,178 | 283 | 95,945 | 156,247 |
| **LOS ANGELES REGION** | | | | | | |
| Brea-Olinda | 6 | 1 | 23 | 21 | 10,951 | 12,533 |
| Coyote—East | 1 | 3 | 134 | 9 | 3,919 | 4,752 |
| Coyote—West | 4 | 4 | 510 | 29 | 14,988 | 14,811 |
| Dominguez | 2 | | | 6 | 8,382 | 14,193 |
| East Los Angeles | | | | 1 | 542 | 1,243 |
| El Segundo | | | | | 304 | 440 |
| Huntington Beach | 10 | 9 | 1,377 | 159 | 56,970 | 50,180 |
| Inglewood | 3 | 3 | 373 | 23 | 11,071 | 11,496 |
| Long Beach | 1 | 2 | 67 | 12 | 14,121 | 23,185 |
| Montebello | 1 | 2 | 110 | 3 | 6,199 | 6,989 |
| Newport | 5 | 3 | 466 | 37 | 6,850 | 6,908 |
| Playa Del Rey | | | | | 1,780 | 2,067 |
| Potrero | 2 | | | 4 | 710 | 979 |
| Richfield | 1 | | | 4 | 5,607 | 6,506 |
| Rosecrans-Athens Group | 2 | 1 | 125 | 10 | 4,124 | 4,520 |
| Santa Fe Springs | 1 | | | 6 | 12,620 | 16,111 |
| Seal Beach | 3 | | | 10 | 8,553 | 10,817 |
| Torrance | 1 | 2 | 65 | 8 | 7,498 | 7,777 |
| Whittier | | | | 2 | 912 | 962 |
| Wilmington | 11 | 15 | 2,941 | 147 | 112,528 | 132,718 |
| Yorba Linda | | | | 2 | 537 | 172 |
| Others | 3 | 1 | 183 | 13 | 2,512 | 2,135 |
| TOTAL—Los Angeles Region | 57 | 46 | 6,374 | 506 | 291,678 | 331,494 |
| **EXPLORATORY** | | | | | | |
| Outpost Wells | 47 | | | | | |
| Wildcats | 20 | | | | | |
| Gas Wells | | 4 | Gas | 27 | | |
| TOTAL CALIFORNIA | 244 | 152 | 21,929 | 1,978* | 766,488 | 915,218 |

*Includes gas wells completed and 341 abandoned drilling wells.

# Lufkin

## for UNDIVIDED RESPONSIBILITY

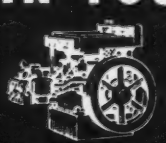


Here's a combination for ECONOMY! A LUFKIN PUMPING UNIT complete with a LUFKIN COOPER-BESSEMER ENGINE! With this team on your side, you'll enjoy maximum production efficiency from the world's outstanding pumping unit in combination with an engine designed especially for oil field use and low cost pumping. You can quickly get all the facts on this serviceable arrangement that incorporates surface simplicity with long life for your rod string, from a LUFKIN SALES ENGINEER. You will learn what we mean by UNDIVIDED RESPONSIBILITY backed by the LUFKIN reputation that guarantees GOOD equipment . . . for BETTER service . . . and the BEST results for PROFITABLE PRODUCTION.

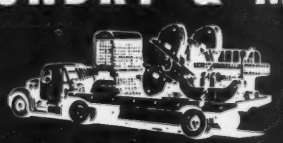
Production companies buy more LUFKIN PUMPING UNITS than all other makes combined.

## LUFKIN FOUNDRY & MACHINE COMPANY

LUFKIN PUMPING UNITS



LUFKIN COOPER-BESSEMER ENGINES



LUFKIN OIL FIELD AND INDUSTRIAL TRUCK TRAILERS

INDUSTRIAL SPEED REDUCERS AND INCREASERS

DIVISION LUFKIN FOUNDRY & MACHINE COMPANY INDUSTRIAL MILL AND AUTOMOTIVE SUPPLIES

5959 SOUTH ALAMEDA STREET, LOS ANGELES 1, CALIFORNIA

## Extrulite Core Tubes Simplify Coring Operations—Cores Protected Against All Possible Damage

A completely new method of handling and storing of oil well cores has been developed by a West Coast plastic firm. Tubes of specially made clear, oil, gas, and waterproof plastic are supplied in any specified length. They are called Extrulite Core Tubes and are made in diameters from 1" to 3", in ¼" increments. A special tube 1⅜" diameter by 7" is supplied for "side wall" cores. This size is being furnished in large quantities to companies operating coring service, as well as the oil companies themselves for their own geologists.

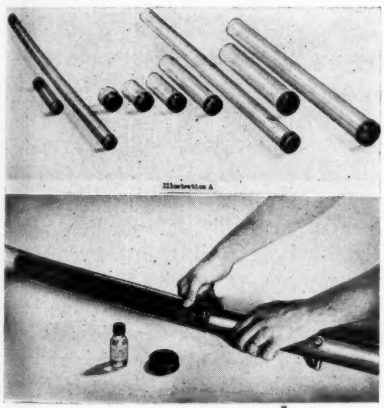


Illustration A-B

**Illustration A:**

Extrulite Core Tubes are closed at each end with specially fabricated plastic caps. One cap is applied at the factory and made a permanent part of the tube by a special solvent, compounded for this service. The second cap is a snug fit, furnished with the tube, to be sealed by the operator. Solvent, in bottles with a brush applicator, is supplied so that operators can seal their own containers. When sealed, the tube becomes an air, water, gas and oil tight container that must be cut to "get at" contests. The container is transparent; therefore, a tag inserted before sealing can be read from the outside. Thus the tag cannot be lost from the tube. As the material is strong and non-breakable, the container formed will not break like ordinary glass; the possibility of loss due to a cork falling out is eliminated.

The core is sealed at the well in the Extrulite Core Tube, lessening the danger of possible tampering. Because the capped tube is air and gas tight, a gas analysis can be made, since the sample reaches the laboratory in the same condition as if it were canned. The weight of Extrulite Core Tubes is but a fraction of that of steel, and less than glass, which means a great saving in weight.

**Illustration B:**

Since no canning equipment is needed, the cost of this equipment is saved, as well as the cost of the labor used. For example, a three-foot core inserted in the Extrulite Core Tube requires only one simple sealing operation. Rust cannot form on this container and contaminate the sample as is possible when canned. To can the same sample would require six or more cans, involving the use of bulky canning equipment, and a minimum of six sealings.

The label is inserted in the Extrulite Tube with the core. Therefore, it cannot be removed or defaced without cutting the tube, if the tube is sealed at each end. This insures the geologist that the correct information on the core is obtained, provided the tube is uncut.

Samples may be tagged and sealed as they are removed from the core barrel by a driller or tool pusher. This operation requires no training or experience. By using these tubes immediately to store core samples, it is no longer necessary for the geologist to be on hand at the well when the core is pulled. Thus, a geologist will be able to "cover" more wells, with an assurance of correct core recordings.

Illustration C

**Illustration C:**

Since the tube is clear, strata and texture may be examined without opening the tube. A small piece of the core for analysis can be removed by slitting the tube opposite the section to be sampled. The slit may then be repaired with the solvent and another small piece of tubing, much simpler than re-canning the sample.

If it is necessary to remove a large sample of the core from the Extrulite Tube, a record may be kept of the removed section of core by replacing removed core with next size smaller core tube, cut to proper length, capped and identified as to disposition, date, etc., with an inserted label.

**Illustration D:**

When the contents are mailable, the tube may be mailed or expressed without outside wrapping. This is a saving in cost, time and material, especially if the sample is to be mailed by air. For transporting "no dope" cores, Extrulite Tubes of opaque black are available. As an alternative, cores may be wrapped in tinfoil or paper before inserting in a clear tube.

Illustration D

**Complete Core Handling Service**

To facilitate the handling of cores and tubes at the well, an aluminum stand is available. It will support nine three-foot tubes in a vertical position while they are being filled. Also available is a carrying case that holds 25 tubes in the 2" or 2½" diameters. Tubes may be full or empty. Extra caps and solvent are available. Therefore, a complete core service may be easily set up by the operator.

**Aid to Geologists**

With this new arrangement the old tray system can be abandoned. There will be no need for core racks and the constant danger of mixing or reversing samples. Since the cores can be sealed at once, there is no danger of weathering, contamination, tampering, or loss of volatile or friable content.

For overseas operations, and on wells that are to be cored in great detail, this system is advantageous. Geologists who take samples of bit cuttings from the mud screen at regular time intervals to correlate with the drilling record will find the Extrulite Tube system of great value. Spacers that mark the time the sample was taken are available. Samples can then be identified as to depth at which taken by correlation, thus making a most interesting series for the paleontologist.

**Plastic Tubes Put to Other Uses**

Other uses for these durable plastic tubes have been suggested. They are being used by engineers to file drawings or prints that must be sealed against the ravages of time and insects. The container is air tight and dry, so mold will not form.

Oil tool manufacturers who ship small parts that must reach the user free from rust and scratching, and be assured that tags or directions will not be lost, find these tubes of particular interest. Several firms are packaging swabs and highly-machined parts that need to be kept free from rust, particularly for export. Samples and prices are available from the manufacturers of Extrulite Tubes, Extruders Inc., 8509 Higuera Street, Culver City, California.

---

## Pelton Establishes Hydraulic Pumping Jack Plant in Los Angeles

The purchase of a Los Angeles Plant by the Pelton Water Wheel Company was recently announced by W. F. Boyle, Vice President and General Manager. The objective of the new plant will be the manufacture and servicing of the "Pelican" Pelton's Long Stroke Hydraulic Pumping Jack.

The new plant is located at 2447 East Fifth-fourth Street, Los Angeles 11, California.

The headquarters of the Pelton Water Wheel Company is at 2929 Nineteenth Street, San Francisco, where it has been engaged in Hydraulic Engineering and Manufacturing for over 65 years. Since 1939 Pelton has been engaged in the development and manufacture of its Long Stroke Hydraulic Pumping Jack for rod pumping of oil wells. "The Los Angeles Plant," Boyle stated, "will give us an opportunity to concentrate the manufacturing and service headquarters of the oil field division in closer proximity to the California Oil Fields than has been possible from San Francisco. When the volume of business justifies it, additional facilities will be located in mid-continent and gulf coast areas."

According to C. J. Woodard, Sales-Service Manager, "The Los Angeles Plant is another step in improving our manufacturing and servicing facilities for our oil producing customers, and is additional preparation for satisfying the rapidly increasing demand for hydraulic surface units for rod pumping of deep and/or heavy production oil wells."

---

## Del Valle Test Starts

Standard of California is starting Sepulveda No. 14 on Sec. 8-4n-17w in the Del Valle area, Los Angeles County. Location is 120 ft. east of the northeast extension test completed last September.

## Bynum Company Offers New Product

Newest product offered by the G. T. Bynum Company, Tulsa, pioneer oil industry equipment designers, is the Hydraulic Power Unit for pipe straightening machines. This unit is designed to speed up the pipe straightening operation by eliminating hand pumping. Requiring only one connection for installation, the Hydraulic Power Unit incorporates many safety devices and all moving parts are away from the operator. Models are available now from 2000 to 6000 p.s.i. This unit can also be used to power hydraulic presses or other hydraulic equipment.

---

A NEW HISTORY on San Joaquin Valley oil has been published by F. F. Latta and your scribe gives an endorsement and recommendation for it. It is really something that every oilwig, witter and wag should have. In fact they are asking for it from roughneck to operator and arrangements are being made to give priority to the fraternity upon request for reservation.

ERNEST H. KREYENHAGEN for whom not only mountains but oil sand have been named in honor of his parentage . . . left for Europe and all parts with possibly the exception of his parents birthplace, Holland. It is difficult to travel here in winter's onslaught of storms this time of year, so Ernie's folks have informed him. Ernie caters to oilmen and his services are available in El Tejon Hotel at least 16 hours a day. His clients are chiefly oilmen from all of the state who stop by here and have a few minutes to take advantage of his excellent personalized services.

OILMEN are interested in costs of government. Paul Howard is back and will continue his economic studies. One of the chief causes for high taxes is health needs. Recently infant epidemics have cost $87,000.00 as a result of farm labor housing needs. Oil companies shared in this expense but they have long ago provided adequate housing . . . now it is believed it is up to the farmers to seek ways and means for permanent and safe facilities.

# Kern County OIL NEWS

ALL OVER KERN COUNTY the feeling was the same. Nobody would wager a nickel. Buttons came out on Wednesday instead of Tuesday and a late shipment of billboard posters actually arrived on election day. But now since Kernoilfolk have completed their fishing jobs and dug themselves out the feeling is once more and again the same. Nobody wants to core in the middle of a cement job. The election like the oil has been carried to the people . . . and we have never seen the county looking so cheerful a week hence.

WE LEFT YOU IN PHILADELPHIA but there is no brotherly love there as regards the struggle for existence . . . it is just done with a little more friendliness . . . and the "Inquirer" said so as a quote from your scribe . . . "it is the most friendly city we have visited" . . . business was off a little.

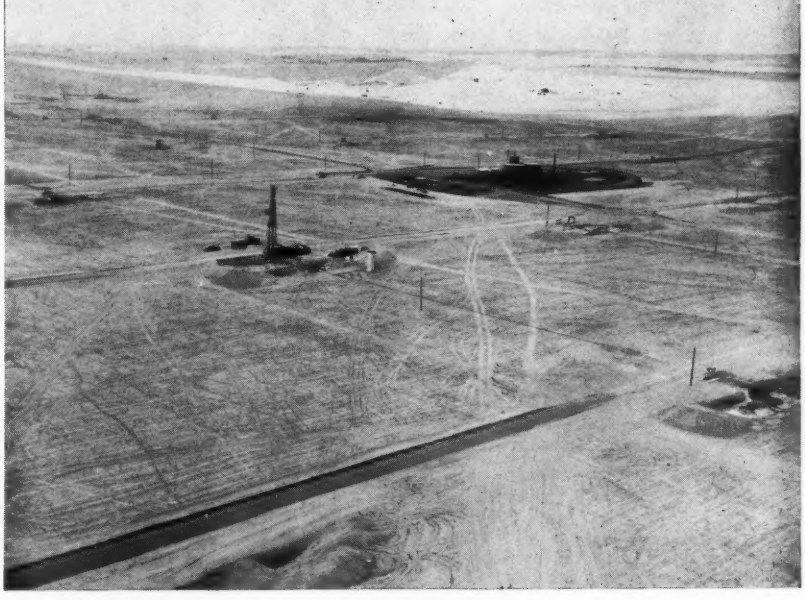
KERN BLUFFS EXTENSION to the southeast of present operations in oil exploitation is the only real tangible and practical news of the hour as far as your scribe is concerned. Yesterday was Saturday and we went out to round up production news in Kern County. It was too early to tell much of a story other than that which you have read by this time. Standard's De Staute was pumping (non commercially at the time) in Section 18-29-29. GENE REID had somewhat offset with a "spudin" that bore evidence of at least interest. Conservative geologists are hopeful of increasing returns.

THUS KERN OIL NEWS begins a new phase of reporting. "The facts as we see them **first** with the general situation as obtains in Kern a little later." However, we might run into another hour of late news if we do not ad lib the lighter vein . . . in other words the human happenings should closely follow as quickly as possible since the "tech" reports deal not in social engineering.

PALEONTOLOGY NEWS stems from Stanley Beck. To Kern this month has come a building built for tenants two or three. On Bakersfield's historic Truxtun Avenue, divided by a parkway of trees and magnolias, fast by the Hornkohl Laboratory, looms the BECK LABORATORY building. Stan occupies the rear facility where parking space for oilwigs affords a reason for selecting the location. We tried to pin a slogan on to Stan like we did to "supplywigs row" . . . and "drillers drive." . . . but he would have none of it, so offerings are open for a nickname to old Truxtun's avenue.

DONALD WEST, Howard Semler and Jack Hogue are junior executives of Beck Laboratory . . . all veterans in a technical capacity from the local Junior College training center . . . for World War II vets. DON does the secretarial necessary of putting things in letter and financial recording media. Leslie Hackney Insurance is the first new tenant in the modern design edifice. Open house including mostly oil company representatives gathered to CONGRATULATE STAN and we SALUTE him at this time.

HERM WEDDLE, rcc . . . (the initials are our own) told us that BOB HUTCHINSON, of Superior



**KERN BLUFFS FIELD from the air looping toward the North to Kern River Fields, Poso, Round Mountain and other places. Here over 30 wells are producing in a field a year and half old. Foreground is Gene Reid's portable for Oceanic going to 1100 feet for a 75 B/D at 15 gravity he hopes. Upper left is Burton McCune's outfit. Center attraction is the Parkford-Vedder tank farm. Wells look like ants as the horseheads pull about 2000 barrels a day total, or more.**

# SAVE TIME - EFFORT - MONEY!

## *Inexpensive - Rapid Installation*

**Your pipeline problems are solved in a hurry, when you call on WoSco! Just say where and when you want your rental pipeline for water, gas or oil. WoSco experts will install it, test it, pick it up when you say the word. Inaccessible locations and rough terrain are a WoSco specialty.**

**Rental pumps for water lines now available. Three and four inch Victaulic-coupled lines available for immediate installation. For further information on rental lines and pumps, phone or write . . .**

**BAKERSFIELD**
**P. O. Box 391**
**Phone 6-6724**

**FRESNO**
**510 Divisadero St.**
**Phone 2-1350**

**Pipe For Every Farm and Oilfield Need**

**WESTERN OILFIELDS SUPPLY CO.**


Oil Company was elected chairman of the San Joaquin Geological Society at the last regular monthly meeting which was held early for elections on account of the AAPG at Pasadena. To the vice chairmanship went FLOYD JOHNSON of Honolulu . . . (we are glad) Max Capen of Seaboard is the able secretariat portfolio . . . representative.

U. S. G. S.'s Pendleton stole the highlight show of the evening with his discourse on topographical mapping from aerial photographs, which was a fine contribution to the election night program. The USGS uses an elaborate system of technical instruments and glasses which pick out the elevations and allows their reproduction on flat maps in accurate elevation measurement figures. This system will soon replace the old costly and slow style of transit and chain accumulation. Map programs are so far behind that at one time theorists claimed a decade was needed to catch up with surveys, providing every innovation stopped.

"MT" SEATS at the geological roundtable reminded kernwigs that oilwigs were in motion at Pasadena instead of the El Tejon. Even the Scouts traded meeting agendi time. Several reports are back and one of them related that MASON HILL of Richfield did a good paper on the CUYAMA Valley. Someone from Kern reported on HUNGRY VALLEY at Gorman . . . Harry Campbell . . . (Kern claims everyone) of Jergins Trust gave a paper on Salinas Valley's San Ardo. Stan Beck did a paleontological paper on San Ardo too, lest we forget. AND that is all the news we have on the AAPG at this time.

TRUMOR HAS IT that out at Coalinga Nose . . . out where the Robert S. Lytles . . . and the Los Nietos Company's identification begins . . . the old Doheny property . . . studies are being made by several companies for its purchase . . . Tide Water Associated is rumored to be the most likely buyer. Kern of course is jubilant and joyous for the reason that increasing returns will set-in, requiring us to make known the resources for its further development.

CIGARS were being passed out as congratulations came in on the blessed event affair out at BOB HEWITT's house. So far meager returns are lacking except that father Hewitt is of course doing well.

QUARTERLY MEETING OF THE Conservation Committee has been announced for November 23. At Taft the group will hold a morning session at 11 C. In the afternoon the Bakersfield meeting at two pm will be devoted in part feature to the unitization program according to Barney Barnard the local CCOP chief. Tuesday, November 23, Bakersfield Inn is the official note we have.

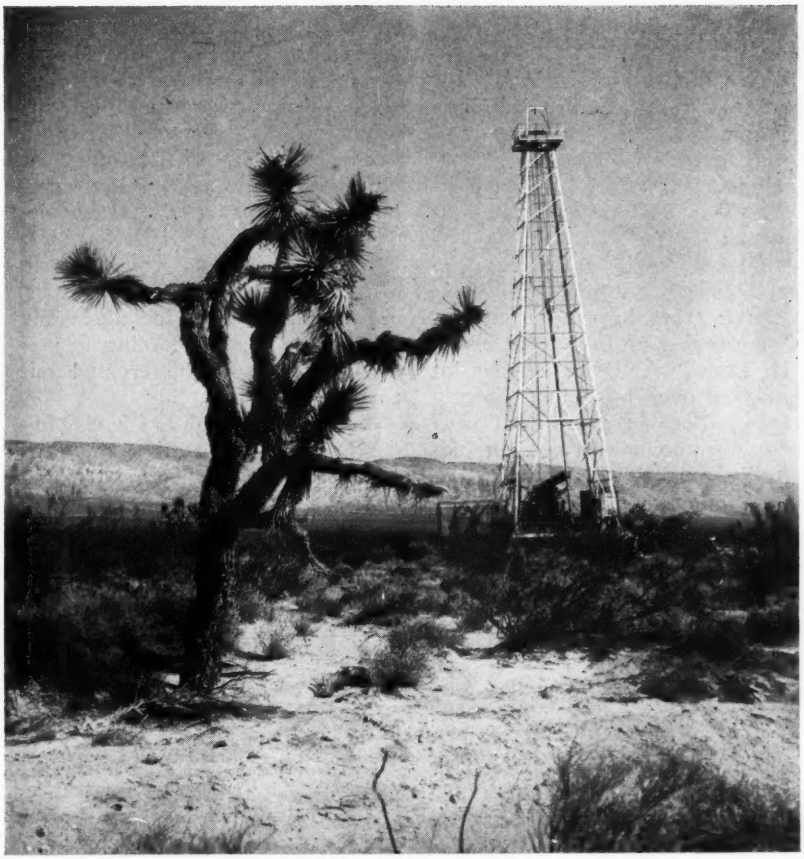
BIG NEW NEWS for Kern has been the expected price rise. One firm has asked 16 cents more from its Los Angeles purchaser. Gossip has it that, "this is a result of the new wage rise" . . . "this is simply a new way to pay bonuses" . . . and a final sour note has reached us that "a pace setter was contemplated." Not knowing anything about it, causes us to speak freely.

TEHACHAPI'S TRANSPORTATION troubles are over. It is officially dedicated that "the new highway is now open for travel." We told Harry Phoenix about it last Sunday and he was there in PERCY . . . Percy made the bow of acknowledgment as the firm representative. He told us that now a new franchise had been secured to haul heavy oilwell supplies into the wildcat areas twixt Tehachapi and Tonopa. The traffic count is around a thousand cars daily... It will save for sure $40,000 in cement trucks which go over the deep ends annually according to Coy Burnett. "No," the ribbons were not a string of potatoes but assistant State Enquirer R. M. Gillus of the Highway Division California State Department of Public Works did not hesitate to officiate for Governor Warren, and snip the regular ribbons with four delightful queens that opened the highway to the public. A quarter of a century of continuous endeavor brought about the major improvement needs in California's Kern section for the 1948 budget.

OIL PROGRESS WEEK was extended all over the country in a pretty good fashion. We found it in Boston as a hangover as late as the 20th. Good old Boston with the big gusher sign atop a building across from the general view from the Miles Standish Hotel. California oilmenwigs were there too and disliked the sign since there are no more gushers. Best thing about Boston is the Courtship Room at the MS . . . no matter how old one is there seems to be a bit of both John and Miles about us.

YOU REMEMBER LARRY MILLER well we saw him in New York . . . he was standing in line for his reservation at the ROOSEVELT . . . (New Yorkers at this point add in parenthesis "Teddy"). Although your reservation is made five months in advance it is still impossible to get your firmed up room until after all the trains and planes are in from all directions. Larry was our guest at the Engineer's Club and he felt quite at home among so many stags . . . however, he was certain that he would not trade such bachelor days of yore as the evening reminded him, for his new status since VJ day.

ACCORDING to our swindle sheet we saw 53 taxi drivers, 42 waiters, 18 maids, 38 bell boys, 30 reservation clerks, 12 hostesses, 15 entrepreneurs, 100 chamberwigs, and only 26 who said they were voting for our man. Some trip that reveals 333 contacts with only 26 on our side. We forgot to ask the 100 group but took it for granted and thought we were not seeing the right kind of folks. Anyway, the wrong kind of folks seemed to have been right. One thing the trip did and that was to put this columnist in another column and also to save his office force enough money to buy himself a new typewriter. Who would have ever thought to have started ringing



**ANY KIND OF GOLD IS WHERE YOU FIND IT according to Mojave desertwigs who will escort you five miles north of Mojave and introduce you to this new Desert Wildcat. PAUL BEAMER of Ramsley, Colorado is drilling ahead after a sand cavein requiring several hundred sacks of cement was surmounted. PAUL is going to a mile despite no showing of any oilbugs at this point . . . which was well over 600 feet.**

door bells in this kind of an election.

EVERYBODY IN MAINE wants to come to California. They even like Kern County potatoes and butane gas . . . Surprising how many folks have not been in California. In John Wanamakers Philadelphia it is different . . . Most of the folks there have found it desirable to find out what California wears . . . they have been out . . . and are saving up to live out here.

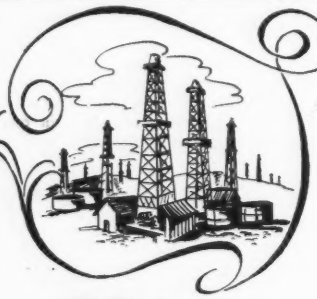
IN PORTLAND we found a lot of oilsand on a box of Di Giorgio grapes. Both grapes and your scribe were doing all right. In Biddeford the local chamber of commerce followed us around finally accusing us of trying to move industry out West . . . A huge statue high atop a monument was a forceful sight, but no one in our contact knew who it was. Portland was no better. The service station at hand did find out for us that the huge bronze figure was Longfellow. We have now forgotten who was statued at Biddeford.

SPEAKING OF BIDDEFORD we do want to say we remembered talking to a conservative "downeasterner" who wanted to give us $50,000.00 for his chance of locating here for his heirs and having a monument built in his name as the one who dared to initiate certain new industry and its new departured phases. KERN AND CALIFORNIA have not begun to discover the opportunities before us, in our opinion. This includes many oil resources too, according to preelection oilwigs who crossed our path.

RICHFIELD OIL COMPANY'S administration building which appeared in Kern Oil News last month caused quite a bit of nice excitement among visitors of Kern and even in the 45th floor of the Empire State Building, New York City. The adjacent cotton fields were of particular interest to Petare Textile people of South America who like decentralization practice and have provided for traffic in single story buildings.

CHARLEY MANLEY his wife and friends were amongst the throng of appreciation for Kern's cultural resources in attendance of the first nighters at the Kern Philharmonic Concert Orchestra. Charley Lake and the Mrs. were there too . . . and it can be said that Charley took no small part in the organization of the Recreation and Cultural Commission sponsored by the big civic association of Kern when he was president.

"A MOMENT AGO," as they say on the radio . . . we told you about things we had seen on the trips we had taken. We neglected to tell anyone anything about the reasons for these trips. Chief reason is to keep in step with the growth of industry here where many branches of the principal offices of various industries are located. We want to know what these head offices are thinking about and how we can continue best to make our appreciation known. We also desire providing for increasing returns so that the ability to consume certain goods and make use of industries' new services might continue.

25 Years

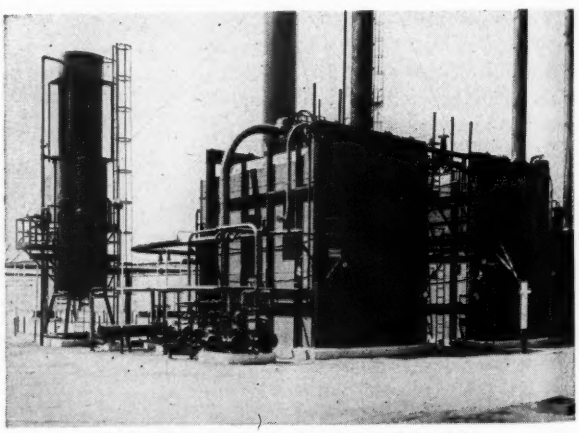
Celebrating a Quarter of a Century of Service to Oil Men and the Oil Industry

SILVER ANNIVERSARY YEAR

KERN COUNTY BANK

TAFT • OILDALE

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION



Boiler Plant Equipment installed at Bakersfield

BOILER PLANT and Compressor Plant Construction

Completely automatic Oil Heating Plants
Johns Manville Insulation
Brick Work ★ Concrete Work
C. E. MANLEY, Manager

OIL FIELD CONSTRUCTION CO.
of BAKERSFIELD
Highway 99 West of Circle Phone 3-0750

AT BOSTON'S STATLER, its Bostonian and its Miles Standish we ran across oilmen and their fellow travellers. The English Room for sophisticated dining we passed, on account of our 212 lbs. The Lounge and Bar and Courtship Room was too intimate a rendezvous with gay entertainment to pass entirely because the Captain's Cabin and the Silver Lagoon only held a lawful 100.

AT LOS ANGELES, Chicago and Detroit we landed so far from the bright lights we still think we were not there with the folks who should have known we were coming. At La Guardia when we left for Los Angeles the temperature at 9 am was 67 . . . in Los Angeles that same night at 9 pm the temperature was the same. "New York even tries to take over our weather," said one DC6er. Providence is a nice place to "sitdownin" when the weather to Boston is too soupy. Snow at Presque Isle which gathers on the wing is too sticky and slow to blubber off and we don't like the altitude losing qualities of an air ship that has to fly under 19,000 in the air.

EVERY COLUMNIST OR PSEUDO THEREOF has to take a trip and write back home or tell about things after he gets back home. This is done in order to keep ahead of the times and preserve appreciation. Sorry not to have had such an assignment. However, our self judgment thinks we could help this Kern page if a few trips were taken more often around the derricks.

WE TRY TO DO THAT TOO but so often we are referred to the advertising manager or the personnel agent . . . and then to the man who really makes things go wrong or right . . . the old "bug and geology" man.

KEENAN pipe and supply people of Los Angeles have a relatively new office here in Kern County and have been added to the news picture parade.

FORMATION LOGGING up in the Haberfelde Building is another Service Company to total a long list of Kern County new industry. Oil Progress Day suggestions forgot to mention "Take A Trip" so Larry Miller did so just the same and your Korny scribe did likewise crossing trails in New York.

BOWEN FISHING TOOL is another company with a branch in Bakersfield. We flew over their offices in Casper.

TED WALTIMIRE another oilwell tool agency which made good has now consolidated about five extra branches within his agency.

MAYFAIR HOTEL is a welcome division of the Kern County Oil News and around each one of these displays white space has been allocated for a personal mention. So we must relate that RICHARD the PHILBIN of Mayfair's management has returned from his match making monopoly in Yosemite and parts a thousand miles each way. He finally got too hot and too cold in the valley of the oil and settled in Santa Barbara for a part of his vacation fortnight. His visit to Kern found competitive hotels using Mayfair matches and a strike was made when your scribe found himself passing out . . . matches that is . . . in the BEN FRANKLIN in Philadelphia when Mayfairs strikers got mixed up with Kern County's "Billion Dollars in Sunshine" display books that tell . . . about a county instead of a hotel.

MAY IT ALSO BE SAID that for almost a quarter of a century the boys and girls and the management of the Mayfair, the courtesy and service has been more than just constant . . . it has improved year by year to perfection.

ONE OF THE OUTSTANDING events of the year was the Coalinga Kettleman Chapter barbecue of the APIwigs of that area. Hector Hollis and Cal Townsend with Johnson Family, Robert S. Lytle, John Vandeventer, Fred Wilson and Les Ballard taking the Kern County favorite spotlight. Also many others, from Fellows, Taft and Maricopa represented the Kernwigs of oil.

GLOBE OIL TOOL'S Gene Gormley as one of the builders of champions attended the meeting at Polvadero, and his golfing average is the same on that course as it is at Stockdale. "Need more be said," said he.

IT WAS NICE to see Sam Bowlby of Shell again adorn the news

Johnston Stainless Welding Rods

PROVEN QUALITY SINCE 1931

•

A. P. JOHNSTON

1845 E. 57th St. - Los Angeles 11, Calif.

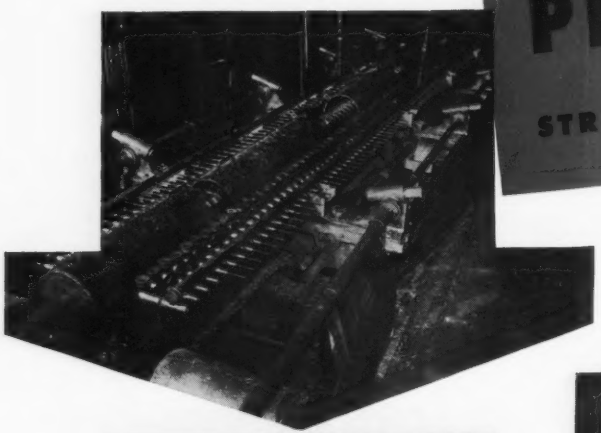
DRIVE PULL AND SLOTTING — ANY USABLE OD SIZE PIPE

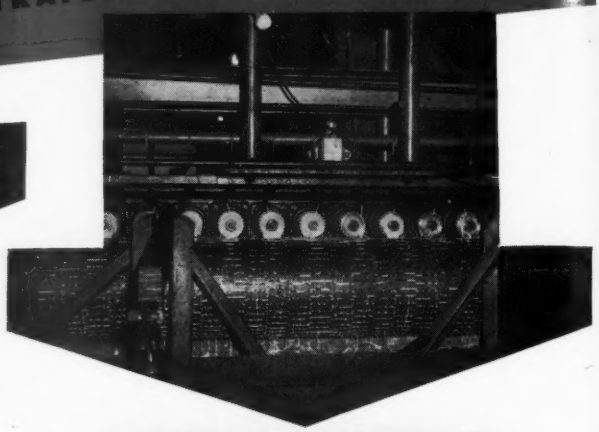
ACCORDING TO YOUR SPECIFICATIONS

# PERFORATING

KEYSTONE SLOTS

STRAIGHT SLOTS — ROUND HOLES





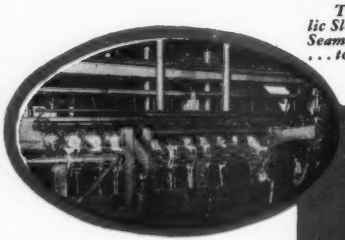
*An easy job for The Oil Tool Corporation's 196 Spindle Round Hole Hydraulic Drilling Machine—2,000 feet of 5" O.D. N-80 Seamless Casing . . . 3/8" round holes drilled simultaneously . . . total time, 30 hours!*

*The Oil Tool Corporation's 16 Spindle Hydraulic Slotting Machine and 1,000 feet of 14" 3/8th wall Seamless Casing just slotted—slots cut to 125 mesh . . . total time, 22 hours!*

## 24 HOUR SERVICE

### For Your Convenience

The Oil Tool Corporation is open 24 hours a day for your convenience. A call—day or night—starts the ball rolling. We do perforating, straightening, threading, reconditioning and testing of all tubular goods. We have on hand hard-to-get sizes, ranges and weights of casing, tubing and line pipe.



## THE OIL TOOL CORPORATION

3075 Cherry Ave. • Long Beach, Calif.

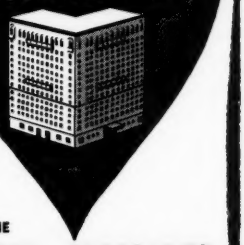
Telephones: Long Beach, 481-81

Los Angeles, Nevada 610-24

*For your oil needs, call . . .*

OIL MEN KNOW,
WHETHER YOU'RE
HERE FOR BUSINESS
OR PLEASURE...

YOU'RE IN
THE HEART OF
LOS ANGELES



AT THE
HOTEL MAYFAIR
GARAGE AND PARKING
ADJOINING THE HOTEL
1256 WEST SEVENTH • LOS ANGELES 14

LET US KNOW AS EARLY AS POSSIBLE WHEN TO EXPECT YOU... WE'LL HAVE THE ACCOMMODATIONS YOU WANT READY WHEN YOU ARRIVE

columns of the press, and we as an old friend in Tanker Launching events, we wish him well and tender our unlimited good wishes for his vigorous adaptation of the ways of the pulses of progress.

WESTERN OILFIELDS SUPPLY COMPANY's Charles P. Lake has recently returned from the east and our paths crossed at the New Yorker where a lot California business is transacted in the oil industry. The only difference in our case was the lack of transaction of anything but plans for the future burning of fuel oil to make power for spinning machinery. WoSco certainly goes out of its way to perform services for the oil industry and it is not so much the cost of doing business such as trips and advertising, but the time that it takes away from home and friends and business that takes the toll. Anyway we know that it pays dividends and that it is appreciated because it keeps in step with the public's needs and its desires and ability to consume goods and make use of services. ALL OF THIS ADDS UP TO PERMANENT PROSPERITY or long enough to be successful and serviceable to the public and the firm as is expected.

TAFT's Taft is a left half back on the Taft Cougar football squad and his first name is Gene. Other facts found at Taft Hi campus were such items as big business invitation to help the USA carry out campaign promises, news of a blessed arrival to the Leroy Hogues, extension of Westside Cemetary area, a fire at Julian Goodwell's home . . . and the killing of a 200 pound bruin on Reyes Creek above camp Sheideck near Maricopa . . . as a result of a planned bear hunt. That's the news from Taft as we found it on a recent Friday.

GENE REID EXPLORATION company may prove up a new field in the Kern Bluff Extension try according to late dopesters getting their mail at the postoffice on a certain Sunday this month. Postoffice meeting gossip also has it that Chicago's API meet will fetch many a Kernwig and Californian with many the latter giving papers and serving on important committees.

SPEAKING OF THE PG&E and its 134,000 hp expansion at the steam plant, George V. Footman, district manager announced that this is 33,000 greater than its first unit completed last May with a capacity of 101,000 horse power. Oil is the agency for fuel to make power. This unit was the first in PG&E's $300,000,000.00 construction program, to be completed.

SENATOR JESS R. DORSEY in 1908 was wheeled down the street in a wheel barrow as a result of an election wager. According to Jess last Sunday a fortnight ago at Tehachapi, he has been in politics ever since he got out of the wheel barrow. Jess was once Assemblyman and District Attorney with his comeback staged almost 20 years after his first retirement . . . Few hasbeens have done so well.

PICTURE OF THE WEEK was Barney Barnard designating a Sharktooth area where an oil operation will be resumed.

CORRECTION CIVIC ORGANIZATIONS; on the total income as per cash figures recently supplied by Kern County's chief advertising agency:

Last year's production for Kern County 107,182,637 was valued at $170,164,006. This is 15,000,000 barrels more than Los Angeles County produced, and again since 1943 Kern leads all other counties in the USA for oil production.

BY THE WAY we reported the "down" in production a couple of columns ago. Now it is fair to publish the "Up" in production. We said down to 907 grand daily from 911 . . . but all recovery has been made and now it is up to 912,000 B/D and plus.

HORNKOHL LABORATORIES

Chemical consultants in Petroleum Production, Testing & Core Analyses.

Bakersfield, Calif. 714 Truxtun Ave. Telephone 8-8567

Pacific Coast Representative

GEARENCH MFG. CO.
P. O. BOX 1221
HOUSTON 1, TEXAS

JOHNSON BLOCK CO.
320 W. 1st St., Tulsa 3, Okla.

L. T "TED" WALTIMIRE
M & W SUPPLY — SALES AGENTS

1221 - 33rd St. — P.O. Box 1612
BAKERSFIELD, CALIFORNIA
Phone 44169 - 28493

Sold through your supply store.

On Your Important Wildcats

—Get ALL the Information

—Save substantially in Drilling and Testing Expenses

LOGGING FROM DRILL RETURNS

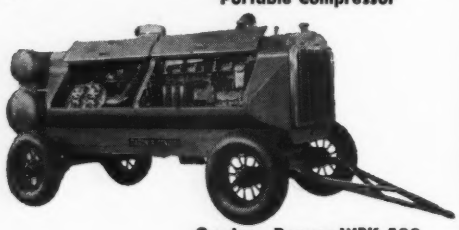
Through

Formation Logging Service Co.
(Peters Logging Service)
Bakersfield, Calif. 220 Haberfelde Bldg.

# HERE'S THE *Quality* LINE

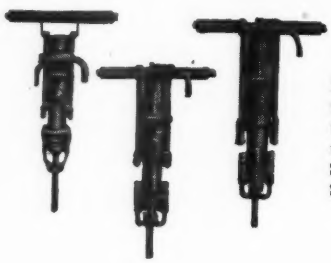
**Gardner-Denver WHD-105 Portable Compressor**

**Gardner-Denver WHF-210 Portable Compressor**



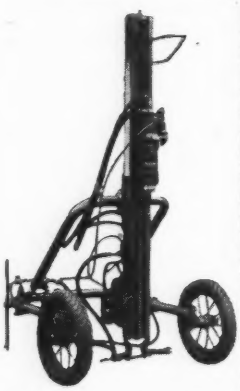
**Gardner-Denver WBK-500 Portable Compressor**

You're *sure* of an adequate and continuous supply of air when you specify Gardner-Denver Portable Two-stage Water-cooled Air Compressors. *Completely* "water-jacketed" for protection against overheating . . . cold "unlubricated" starts . . . high lubricating oil consumption, Gardner-Denver Portables give you the air you need in any climate or at any altitude. For further information about the complete line of Two-stage Water-cooled Air Compressors, ask for a demonstration or write Gardner-Denver Company, Quincy, Illinois.



No matter what the type of ground, there's a Gardner-Denver Sinker that is "right." Shown from left to right are the S33, the S45 and the S55—part of a complete line of Sinkers available for every need.

T23 Tamper. Balanced for smooth handling, this tamper easily walks over the fill. The plated and polished piston is easy on the front head packing — eliminates loss of power from air leakage. Integral oil reservoir assures complete lubrication.



URM99 Wagon Drill. The *new*, faster drilling motor feed wagon drill. Designed for quicker, 6-foot steel changes; carries a 3½" to 4" bore derrick drill. 5-cylinder radial air motor operates motor feed.

B87 Paving Breaker has an exclusive safety latch that works like the "safety" on a gun—prevents accidents before they start. Operator can move breaker safely from place to place without shutting off air.

**GARDNER-DENVER**
**SINCE 1859**

**Dallas • Houston • Tulsa • St. Louis**
**Los Angeles • San Francisco • New York**
**Chicago • Pittsburgh • Denver • New Orleans**

**Continental Supply Co.: Continental Bldg., Dallas, Texas**
**Republic Supply Co. (of Calif.), 2122 E. 7th St., Los Angeles, Calif.**

# With Drilling Contractors

Retiring President E. C. Brown of the American Association of Oilwell Drilling Contractors termed 1948 as probably the most important year in the history of the oil industry in a speech at the opening session of the organization meeting at Houston.

He cited increased demands for all oil products as a challenge which the industry has met by currently producing 5,600,000 barrels daily.

Brown viewed the association's educational activities as its most important work.

Thomas P. Pike's paper on "An Incentive Plan for Drilling Contractors" drew wide attention and won popular acclaim from those attending the meeting.

---

Petroleum Drilling & Producing Company has been organized at Long Beach to engage in contract drilling and oil field tool rental service. President is Oscar E. Shehorn, S. M. Brooks is vice president and manager.

---

Fred Manning, widely known California and Rocky Mountain area contract driller, is on a tour of Chicago and other points eastward. Currently his organization is running half-a-hundred strings, eight of which are operating in California. All are power rigs. He recently extended his operations to Texas. Manning also is the owner of several large producing properties.

---

J. Doyle Settle of Dallas has been elected head of the newly created drilling and exploration safety group of the petroleum section of the National Safety Council. Settle, who is secretary of the American Association of Oilwell Drilling Contractors, was named when the new group was formed at the 36th National Safety Congress held in Chicago. He directs the association's industry-wide safety program.

When Drilling and Exploration Company recently completed for Lloyd Corporation its Lloyd Corporation No. 25 on the east side of the Ventura field, it marked 24 producing wells drilled by the same contractor there during the past 10 years. All of the wells are deep producers, with this latest one coming in from 13,907 ft. Lloyd Corporation No. 7 was omitted in the series of wells drilled on the lease.

---

Contract for drilling Cleveland Oil's David No. 1-1 and No. 2-1 on Sec. 36-28s-27e at Kern River has been awarded Miller and York of Bakersfield.

---

Loffland Bros. Drilling Company has spudded Humble Oil & Refining's wildcat in the Castaic area. On contract for Standard, Loffland is drilling at 9600 ft. with Del Amo No. 1 in the Dominguez area.

---

Santa Fe Drilling Company has completed for Richfield Oil its Hadley-Stone No. 1 well at Cuyama. The well finished at a redrilled depth of 3092 ft.

---

R. W. Sherman's interesting test at Newhall is a contract job with Buass Drilling Company. The well is in the completion stage.

---

Tracy Harkness Drilling Company, contractor, is completing Hancock Oil's Quality No. 67-31 at Cuyama. Oil sand was topped at 3094 ft.

---

Gene Reid Drilling Company has the contract to drill Golden Bear Oil's Buckley No. 1 in the Poso Creek area of San Joaquin Valley. The contractor, meantime, is giving the final touch to Rothschild Oil's Wheeler No. 5 at West Montebello.

---

K. L. Kellogg & Sons Drilling Company will drill Universal Consolidated's Panorama Ranch No. 1 near San Fernando in Los Angeles County. Kellogg recently scored a completion for Seaboard Oil with Pauley-Seaboard No. 83-20 at Lawndale.

---

San Marino Oil will contract the drilling of its Capital Crude No. 9 on Sec. 7-3n-19w in the Bardsdale field. Officials of the company include C. W. Fetterman and Kenneth H. Hunter.

---

Acme Drilling Company on contract is rigging up to start the drill in Douglas Oil's Douglas No. 13 on Sec. 22-9n-33w at Cat Canyon in Santa Barbara County.

---

John Spiers Drilling Company is moving in heavier equipment to its contract job, Temblor Exploration's Temblor No. 1 in the McDonald area, Kern County. The hole presently has reached 1013 ft.

---

L. M. Lockhart's operations include two contract wells. They are R.C.A. No. 3-1 and Postal Union No. 1-35 at Bolinas and Burrell, respectively. The contractor is Dunlap & Graham of Long Beach.

---

Gilliland Oil's Miller Bump No. 3, a cable tool job at Devils Den is drilling under contract with H. W. Braase Drilling Company.

---

Terminal Drilling Company has foundation in for Standard of California's project in the Inglewood field. The well is known as W.L.A.I. No. 1-100.

---

In the Antelope Valley area of Los Angeles County, contractor McKain Drilling Company is moving ahead with Orlando No. 1 for the Orlando Oil Company. Present depth is 1350 ft.

---

Pacific Drilling Company has contract to drill Indian Oil Company Placerita No. 2, Sec. 31-4n-15w, at Placerita Canyon.

**At Long Beach Oil Development Corp.'s well No. 79 in Long Beach. Pioneer Drilling Co. contractors. Rear row, left to right: F. W. Ennis, derrick; C. E. Batten, Driller; L. E. Cohee, lead tong; front row, kneeling, D. R. Moore, floorman; J. R. Hotchkiss, floorman.**

Edward H. McCullough, formerly vice president in charge of operations for Amerada Petroleum in California and Canada, has been elected to the directorate of the First National Bank and Trust Company, Tulsa. McCullough was transferred to Tulsa last March as vice president in charge of operations for Amerada. He went to Oklahoma to succeed the late Allman M. Blow.

---

Otto Mauthe, genial public relations expert for Southern California Gas and Southern Counties Gas, announces that "Westward Flow," motion picture story of the Texas-California gas pipeline, has been selected by Fox West Coast Theaters for showing in houses throughout Southern California. The film was produced by Polaris Pictures.

---

E. L. Adams, retired president of General Petroleum Corporation, Los Angeles, and C. C. Scharpenberg, retired, formerly with Standard of California at Bakersfield, were awarded certificates of appreciation by the production division of the American Petroleum Institute at the Chicago meeting.

---

The completion recently of an oil well in Utah was hailed as the state's first producer. An earlier drilling success, however, is cited by J. E. Busch, engineer for the Arizona Department of Mineral Resources and widely known in California oil circles. He recalled that the old Virgin River Oil & Development Company found oil in the summer of 1907 in the Mormon state with a well at North Creek, two miles from Virgin City. Busch, who at that time was secretary of the company, said the well came in from around 700 ft. Initial production was about 200 barrels a day. The well held up for some years, despite the lenticular quality of the formation open.

---

President Ralph K. Davies of American Independent Oil Company, announces the appointment of A. Allen Weymouth as chief geologist of the recently organized concern. The company comprises a number of United States independent oil companies, which banded together to undertake foreign oil development. Weymouth in his new post will serve as executive assistant and consultant to Nate P. Isenberger, formerly with Phillips Petroleum and now vice president of American Independent in charge of exploration. Weymouth has enjoyed a brilliant career as a petroleum geologist in the Middle West, New Zealand and Venezuela.

---

Jack Hampton has been appointed manager of sales and service for the Waldrip Engineering Company in the San Joaquin District.

Hampton from 1922 to 1927 was with Shell Oil Co., Inc., at Ventura working in both the drilling and production departments. He later was with the California Petroleum Co. and The Texas Co. as full time driller. In 1940 he set up a store and shop for Fluid Packed Pump Co. at Taft.

**Lunchtime at the Termo Oil Co.'s well, Hart No. 1, in the Long Beach Field. Camay Drlg. Co. contractors. Left to right: Harry Combs, derrick; Pat Larsen, driller; C. E. Moss, Eastman Oil Well Survey representative; A. V. Mulvenon, cat head; D. W. Zilliox, pipe racker, C. T. Pershall, lead tong.**

# LAUGH THIS OFF!!

Farmer Brown had been on a bender in the big city and was suffering from a terrible hangover when he stumbled out at five o'clock in the morning to milk the cow.

"You look terrible," said the cow, bluntly. "Those circles under your eyes reach down to your knees."

"I know," said the farmer. "And milking you is only the beginning of my troubles. I'll be slaving on this durn farm 'til seven tonight."

"Well," volunteered the cow, I'll help you all I can. You just hold tight and I'll jump up and down."

---

"If my memory doesn't fail me, it's a boy," said great, great, great grandma as she admired a neighbor's new-born.

---

A northern girl says, "You may," and a southern girl says, "You all may."

---

The reason my gal reminds me of a switchboard is because when she walks all her lines are busy.

---

A woman called up for jury duty refused to serve because she didn't believe in capital punishment.

Trying to persuade her, the judge explained: "This is merely a case where a wife is suing her husband because she gave him a thousand dollars to pay down on a fur coat and he lost the money in a poker game."

"I'll serve," she said, "I could be wrong about capital punishment."

---

A man is getting along in years when he pays more attention to the food than he does the waitresses.

---

Middle age is that period in a man's life when he'd rather not have a good time than have to get over it.

---

Better get a good laugh at the bathing suits they're wearing in these times, because in a little while there won't be anything to laugh at.

Dentist—"Stop waving your arms and making faces, sir. Why, I haven't even touched your tooth."

Patient—"I know you haven't, but you're standing on my corn."

---

Sign in a laundry window: "We do not tear your laundry with machinery. We do it carefully, by hand."

---

Willie: "Did Edison make the first talking machine, Pa?"

Pa: "No, son. God made the first one, but Edison made the first one that could be shut off."

---

Wife: "Why do you always go out on the porch when I sing?"

Husband: "I want to prove to the people passing that I'm not beating you."

---

"Mr. Burke, I wish you'd stop using words that will cause you to complain about my spelling!"

---

Sales Manager: "What's this big item on your expense account?"

Traveling Salesman: "Oh, that's my hotel bill."

Sales Manager: "Well, don't buy any more hotels."

---

A motorist ran over a man's toes and the victim claimed damages.

"What! you want $400 for a damaged foot?" cried the motorist. "I'm not a millionaire!"

"Maybe you aren't," replied the victim, "But I'm no centipede."

---

Two buzzards soared lazily over the desert when a jet-propelled plane zipped by them, its exhausts throwing flame and smoke. As it whizzed out of sight, one of the buzzards remarked, "That bird was really in a hurry."

"You'd be in a hurry, too," said his companion, "if your tail was on fire."

The woman autoist posed for a snapshot in front of the fallen pillars of an ancient temple in Greece.

"Don't get the car in the picture," she said, "or my husband will think I ran into the place."

---

**LOOK at Your LEDGER**

**If high production costs are cutting your profits, it's time to consider Jensen. Jensens consistently cut costs because they lift oil smoothly and efficiently with less fuel . . . takes less servicing and repairs. The reason for this low-cost pumping performance is the sound design, rugged construction, and 29 years of manufacturing experience that goes into each Jensen pumping unit.**

**Smaller figures on the cost side of your ledger mean larger ones on the profit side . . . so contact your Jensen dealer, or write Coffeyville for facts and figures on how Jensen will cut your production costs.**

**Stocked by**
**THE OIL TOOL CORPORATION**
**3075 Cherry Ave., Long Beach, Calif.**
**Phone 481-81**

**JENSEN BROTHERS MFG. CO.**
**COFFEYVILLE, KANSAS, U.S.A.**
**EXPORT OFFICE: 50 Church St., New York City**

## E. M. Smith Starting Gate Belongs on "Must List" to Protect Horses-Patrons

More and more oil and oil equipment men are becoming financially interested in the "Sport of Kings."

Because of this the editor thought the following article would be of interest to many readers.

When a buyer goes to the California, Keenland or Saratoga breeders' sales and invests five thousand, and maybe pays up to fifty, for one or more runners which may turn him a handsome profit—or a handful of ashes—he has to be game to the core.

Robert J. Kleberg, of the Texas and Kentucky King Ranches, paid $52,000.00 for a Beau Pere colt at the Saratoga Summer Sales. Brookmead Stable invested $103,500.00 in five yearlings. Cedar Farm, owned by John S. Bromley, purchased five for $32,000.00 Roscoe Goose got three for $31,600.00, Hugh Fontaine, acting as an agent, acquired six for $53,-700. Other individual sales were: a colt by Bull Lea-Flying Wind, $45,-000.00. Filly by *Bull Dog-Aphaona, $37,000.00. Colt by Mahmoud-Last Chick, $30,000.00 Colt by Blue Larkspur-Galagay, $28,000.00. Filly by Beau Pere-Leslie Gray, $27,000.00. Filly by Challedon-Mrs. Ames, $26,-000.00; colt by Occupation-Seaway, $23,000.00; filly by Bull Lea-Bay Servant, $21,500.00; filly by *Bull Dog-Irvana, $21,000.00.

The purchases as above described were just a small segment of the number of colts and fillies sold for comparatively small change. The small buyers hoped they would pick an Alsab, and the wealthy buyers wanted to recover their investments and a fair profit.

The minute the yearlings were led from the sales ring at Saratoga, they commenced to cost the new owners more money. Collectively, they will cost all of their owners hundreds of thousands of additional dollars up to the moments when they go to posts at various tracks to try to win purses as two-year-olds.

By the same "game to the core" token, it takes men with iron in their guts and imagination to maintain racing plants such as beautiful Hialeah, splendid Santa Anita, lovely Del Mar, picturesque Saratoga, The Belmont and others.

But the bugs have not been taken out of the racing plant side of the picture. When a costly thoroughbred goes to the post, after all of the painstaking training, to try for a purse, one of the major obstacles confronts the animal in the form of a starting stall gate. To colts and fillies which are not touchy or bad post actors, the stall gate now largely in use is no obstacle at all. But most colts are tigers at the stall gate. At least, the tiger in them comes out at that time. They become so fractious that riders are spilled and injured, as well as the mounts. Legs are broken and the costly two-year-olds and up, often have to be destroyed. Races are lost because top sawyers pass through such seas of emotion that they burn out the will-to-win fighting the gate before the barrier is sprung.

It seems that stall gates line up the runner too tightly, for one thing. When they come out they bump and wabble, thereby losing ground and many, many times races and money for owners. The starting gate is a track management problem. The track operator should scrutinize this closely. After all, what is a race track without horses? Good horses pull big crowds. Big crowds leave a lot of "do-ra-me" behind.

When new equipment, like the E. M. Smith starting gate, offers every racing plant an improvement, why fight it? It ends the starting difficulties which make bettors unhappy. When a sweet dispositioned runner goes to the post and gets "in a fight with a gate," it doesn't make folks happy who are holding tickets on him. Race track audiences are deserving of a break, too. Actually, they pay for everything on the place. When a horse has to be actually forced into a stall gate, it does something to him which doesn't enhance the chances of the win-place-show tickets—thousands of dollars worth of them.

Actual tests prove that the E. M. Smith starting gate assures a perfect running start. The horses simply move up to a fence. Suddenly, it vanishes at a mile-a-minute speed, and they're off. The meanest post actor gets a running start. Nothing irks a horse. Jockeys are safe. There's no bumping or frightened runners. No broken legs, no damaged animals and no time is wasted.

The E. M. Smith starting gate doesn't frighten a horse. It must look to him like the paddock fence at the ranch. And the audience can see every move. You never hear such remarks as: "They beat my horse getting him into the gate so he couldn't win!" or "I'll never lay another buck on that bad post horse!"

For the good of the industry, track operators should place the E. M. Smith starting gate on the "must list."

Before the war, racetracks in the Philippine Islands ran 32 races a day. Now they run only 20 races.

The E. M. Smith Starting Gate at Santa Anita